PC Institute

IBM

Personal Systems Reference
IBM ThinkPad - withdrawn

IBM ThinkPad 300, 500, 700, 700C - withdrawn

IBM® ThinkPad®:	✂ **300** monochrome		✂ **500** sub-notebook		✂ **700** monochrome		✂ **700C** color TFT
Processor type	**80386 SL**		**80486 SLC2**		**80486 SLC** ☑		**80486 SLC** ☑
Processor speed	**25 MHz**		**50/25 MHz**		**25 MHz**		**25 MHz**
Memory cache	64 KB external		16 KB internal		16 KB internal		16 KB internal
Coprocessor socket	Yes (for 387 SL)		No		Yes (for 387 SL)		Yes (for 387 SL)
Diskette drive	3.5" 1.44 MB		**External** 3.5" 1.44 MB		3.5" 1.44 MB		3.5" 1.44 MB
Price (retail USD)	$ 1,999	$ 2,199	$ 1,999	$ 2,499	$ 2,750	$ 2,950	$ 4,350
Type - model	2615-065	2615-067	2603-081	2603-171	9552-300	9552-301	9552-30B
Hard drive - size	**80 MB** ☑	**120 MB**	**85 MB**	**170 MB**	**82 MB** ☑	**122 MB** ☑	**120 MB** ☑
Hard drive - speed	19 ms	17 ms	15 ms	15 ms	17 ms ○	17 ms ○	17 ms ○
Available date	Oct 92	Oct 92	June 93	Aug 93	Oct 92	Oct 92	Oct 92
Withdrawal date	Oct 93	Oct 93	Dec 93	Dec 93	Oct 93	Oct 93	Oct 93
Display - type	VGA mono ☑		VGA mono		VGA mono ☑		**VGA color**
Display - grey scales	64 grey scales ☑		64 grey scales		64 grey scales ☑		256 colors 640x480
Display - techology	STN		STN		STN		Thin film transistor
Display - light source	LCD - Side-lit ☑		LCD - backlit		LCD - backlit ☑		Active matrix
Display - size (diag)	9.5 inch ☑		7.4 inch		9.5 inch ☑		10.4 inch
Display - contrast ratio	13 to 1 ☑		18 to 1		18 to 1 ☑		100 to 1
180 degree display tilt	Yes		Yes (external SVGA)		Yes		Yes
Memory - std / max	4 / 12 MB 80 ns		4 / 12 MB 80 ns		4 / 16 MB 80 ns		4 / 16 MB 80 ns
Mem - sockets empty	2 sockets (parity)		1 socket (non-parity)		2 sockets (parity)		2 sockets (parity)
SIMM/ICs available	2, 8 MB SIMMs		4, 8 MB ICs (3.3 volt)		2, 4, 8 MB ICs		2, 4, 8 MB ICs
Keyboard / # of keys	Full size alp/num/ 82		90% size alp/num/ 81		Full size alp/num/ 84		Full size alp/num/84
Fn key functions	Yes (back panel)		11 (in any appl)		None		None
Keyboard slope	Miniature (option)		No		8 degrees (legs)		8 degrees (legs)
Mouse/pointing	Yes		**TrackPoint II**™		**TrackPoint II**		**TrackPoint II**
Ext keyboard support	12 (in any appl)		No		Yes (with opt cable)		Yes (with opt cable)
Dimensions	12.1 x 8.5 x 1.7"		10.1 x 7.2 x 1.6"		11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.2"
Cubic inches	175 inches		116 inches		185 inches		214 inches
Carrying case	Blk nylon (option)		Blk nylon (option)		Blk nylon (option)		Blk nylon (option)
Color	Charcoal grey		Black		Black		Black
Weight (with battery)	5.9 pounds		3.8 pounds		6.5 pounds		7.6 pounds
Battery - type	Nickel hydride		**Sealed lead acid**		Nickel hydride		Nickel hydride
Batt - life (per battery)	3 to 10 hours		3 to 9 hours		3.8 to 7.5 hours		2 to 4 hours
Charge time - on / off	10 hrs / 2 hrs		2.5 hrs / 1.2 hrs		3 hrs / 2 hrs		1.5 hrs / 1.4 hrs
Battery - options	None		Nickel hydrid ($49)		Yes - status indicator		Yes - status indicator
Architecture	AT bus		AT bus		Micro Channel®		Micro Channel
External AT/MCA port	No		No		Yes		Yes
Comm Crtrdge (1 card)	No (fast parallel)		No		Yes (black)		Yes (black)
Docking Station	No		No		Yes (3550-002) blk		Yes (3550-002) blk
Port replicator	Yes		No		Yes (black)		Yes (black)
Modem/serial slot	None		No		Yes		Yes
PCMCIA 2.01 slots	Modem only		**1 Type I or 1 Type II**		None		None
Visible LEDs - closed	Yes - batt charge		Yes		Yes		Yes
Serial / parallel ports	Yes / Yes (EPP)		Yes (cable) / Yes (EPP)		Yes / Yes (DMA)		Yes / Yes (DMA)
APM-aware BIOS	APM-aware BIOS		APM-aware BIOS		APM-aware BIOS		APM-aware BIOS
Other features	Hrdw security loop		Hibernation mode		Hrdw security loop		Hrdw security loop
Preinstalled software	None		DOS 5.02, PRODIGY®		DOS 5.02, PRODIGY		DOS 5.02, PRODIGY
Warranty	1 year - carry in or EasyServ (opt onsite)		1 year - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 360, 750, 755. The 700/720 memory IS compatible with 360, 750, 755.

FEATURES OF 500

Most powerful sub-notebook with 486SLC2
Lightweight 3.8 pounds
Hibernation mode saves memory to the hard drive and shuts system off
External VGA is SVGA (to 800 x 600)
Std external floppy (9 oz) plugs into back
Personalized nameplate in molded indentation
Coupon book with $4,000 in savings
Self charging battery with **integrated wall plug** and **no memory effect** (081, 171)

ThinkPad 500 models 081 and 171 withdrawn due to problems with the sealed lead acid battery and replaced by models 08N and 17N with a nickel hydride battery

FEATURES OF 300

Upgradeable to TFT active color; 8.4"
Ethernet on planar for 10baseT,10base2
Upgradeable to 120 MB (80 MB version)
External VGA is SVGA (to 1024 x 768)
2 level password security
Hot key setup in any application
Standby mode and rest mode
Rest mode lasts up to 2 weeks

FEATURES OF 700/700C and 720/720C

3 year international warranty
700/720 mono upgradeable to TFT color
700/700C upgradeable to 486SLC2 50/25
Upgradeable to 120, 160, 240, or 340 MB
Removable hard disk
Pressure activated TrackPoint II
Optional battery w/ power status indicators
Quick Charger holds 2 batt; discharge button
Coupon book with $4,000 in savings

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator	**IBM or dealer warranty/service**
Non-disruptive battery exchange	**30 day money back guarantee**
Simultaneous LCD and external CRT	**24 hour / 7 day fax support**
US EPA Energy Star compliant	**24 hour / 7 day bulletin board support**
International warranty	**24 hour / 7 day telephone support at 1-800-772-2227**

IBM ThinkPad 310 (EMEA) - withdrawn

IBM® ThinkPad®:	✂ 310	✂ 310	✂ 310D
	11.3" Dual Scan SVGA color	11.3" TFT SVGA color	11.3" Dual Scan SVGA color / 10 x CD-ROM
Processor type	**Pentium® 133/66 MHz** (P54CSLM) / 64 bit to transfers to L2 cache and memory		
Processor upgrade	None		
L2 cache	**256 KB** / write-back / direct mapped / 7 ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44 MB (on left side)		External 3.5" 1.44 MB (connect to rear)
CD-ROM drive	**None** (upgrade available)	**None** (upgrade available)	**10 x CD-ROM** / bootable(left side) / CAV
Code name	LaCrosse	LaCrosse	LaCrosse
Price			
Type - model	**2600-100**	**2600-300**	**2600-200**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	June 1997 / January 1998		
Disk - size / ms	**1.08 GB** / 13 ms read; 14 ms write / PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**11.3" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**11.3" Dual Scan SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 / 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors / Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	**16 MB** / 64 MB / one 16 MB SO-DIMM is installed in one of two sockets		
Memory - features	60 ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32 MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 1.9" (198 cubic inches)		
Weight	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.0 lbs (3.2 kg)
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Battery - life	2.5 hours		
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs / no non-disruptive battery exchange		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32 bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control / internal microphone		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ Diskette and disk write protect and disable / Locking device keyhole on back (Kensington™ cable lock)		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	**1 year** - carry-in		

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1   = Hot key help
Fn + F2   = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3   = LCD/CRT/Simultaneous
Fn + F4   = Fuel gauge
Fn + F5   = Audio volume
Fn + arrows = Adjust volume
Fn + F6   = Power mgmt and system info
Fn + F7   = Standby
Fn + F8   = Hibernation
Fn + Esc = Close Hot key icon

Compatible in ThinkPad 310 family:

- 2.1 GB HDD 13/14 ms (user upgradeable)	11J8643
- NiMH Battery	11J8639
- AC Adapter, 3 prong w/o power cord	11J8699
- AC Adapter, 3 prong with US power cord	11J8702
- 8 MB SO DIMM 3.3v NP EDO 64 bit, gold	11J8635
- 16 MB SO DIMM 3.3v NP EDO 64 bit, gold	11J8636
- 32 MB SO DIMM 3.3v NP EDO 64 bit, gold	11J8637
- 10 x CD-ROM w/ external FDD/cable (dealer installable only)	11J8676
- PCMCIA 28.8 Kbps International	42H4319

FEATURES OF 310 MODELS

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
US EPA Energy Star compliant
Personalized nameplate indention
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service

IBM ThinkPad® 310E and 310ED (EMEA) - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
	12.1" Dual Scan SVGA color	11.3" TFT SVGA color	12.1" Dual Scan SVGA color / 10X CD-ROM
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 150/60MHz**	**Pentium MMX 133/66MHz**
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (upgrade available)		**10X**[5] **CD-ROM** / bootable (left side) / CAV
Code name	LaCrosse-2		LaCrosse-2
Price			
Type - model	**2600-400**	**2600-600**	**2600-500**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	November 1997 / July 1998		
Disk - size / ms	**1.6GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**11.3" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	**16MB** / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 49 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.1 lbs (3.2 kg)
Battery - life	3.0 hours	3.5 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit/33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control / internal microphone		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1   = Hot key help
Fn + F2   = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3   = LCD/CRT/Simultaneous
Fn + F4   = Fuel gauge
Fn + F5   = Audio volume
Fn + arrows = Adjust volume
Fn + F6   = Power mgmt and system info
Fn + F7   = Standby
Fn + F8   = Hibernation
Fn + Esc   = Close Hot key icon

OPTIONS

- 2.1GB disk, 13/14ms (user upgradeable)   11J8643
- 3.2GB disk, 13/14ms (user upgradeable)   05K8864
- NiMH Battery   11J8639
- AC Adapter, 3 prong without power cord   11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8637
- 10X CD-ROM w/ external FDD/cable   11J8676
  (dealer installable only)
- 20X-8X Portable CD-ROM   1969010
- 20X-8X Portable Stereo CD-ROM   1969011
- PCMCIA 33.6Kbps International Data/Fax   42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK   55H6759

IBM ThinkPad® 310E and 310ED (EMEA) - Spring 1998 - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
	12.1" Dual Scan SVGA color	12.1" TFT SVGA color	12.1" Dual Scan SVGA color / CD-ROM
Processor type	**Pentium® MMX™ 166/66MHz**[1]		
Processor upgrade	None		
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
CD-ROM drive	**None** (dealer upgrade available)		**20X-8X**[5] **x CD-ROM** / bootable (left side) / CAV
Price			
Type - model	**2600-A00**	**2600-C00**	**2600-B00**
Preload (see side)	**Windows 95 OSR2**		
Avail / withdrawn date	March 1998 / September 1998		
Disk - size / ms	**2.1GB**[4] / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	**12.1" Dual Scan SVGA color**	**12.1" TFT SVGA color**	**12.1" Dual Scan SVGA color**
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator		
Graphics - memory	1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	**16MB** / 64MB	**32MB** / 64MB	
Memory - implement	One 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 16 or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight[2]	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	2.8 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control / internal microphone		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty[11]	**1 year** - carry-in		

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Internet Explorer 4.0
- Notebook Manager
- (no diskette factory)
1. IBM Anti-Virus
2. IntelliQuest Registration Mailer
3. ThinkPad Customization Icon
CD-ROMs included in shipping carton:
- Application CD-ROM (includes W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable) — 11J8643
- 3.2GB disk 13/14ms (user upgradeable) — 05K8864
- NiMH Battery — 11J8639
- AC Adapter, 3 prong without power cord — 11J8699
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold — 11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold — 11J8637
- 10X CD-ROM w/ external FDD/cable — 11J8676
  (dealer installable only)
- 20X-8X CD-ROM w/ external FDD/cable — 05K8867
  (dealer installable only)
- 20X-8X Portable CD-ROM — 1969010
- 20X-8X Portable Stereo CD-ROM — 1969011
- PCMCIA 33.6Kbps International Data/Fax — 42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK — 55H6759

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

IBM ThinkPad® 310ED (Retail models) - withdrawn

IBM® ThinkPad®:	✂ **310ED**	✂ **310ED**
Processor type	**Pentium® MMX™ 133/66MHz**[1]	**Pentium MMX 166/66MHz**
Processor upgrade	None	
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory	
L2 cache	**256KB** / write-back / direct mapped / 7ns / sychronous pipelined burst	
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)	
Diskette drive	External 3.5" 1.44MB (connect to rear)	
CD-ROM drive	**10x**[5] **CD-ROM** / bootable (left side) / CAV	**20X-8X**[5] **CD-ROM** / bootable (left side) / CAV
Price		
Type - model	**2600-50U**	**2600-B0U**
UPC code	**087944375975**	**087944395997**
Preload (see side)	**Windows 95 OSR2**	Windows 95 OSR2.5
Avail / withdrawn date	November 1997 / May 1998	March 1998 / September 1998
Disk - size / ms	**1.6GB**[4] / 13ms/14ms / PIO 4 / SMART	**2.1GB** / 13ms read; 14ms write / PIO Mode 4 / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	**12.1" Dual Scan SVGA color**	
Display - techology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion	
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	**16MB** / 64MB / one SO-DIMM used	**32MB** / 64MB / one SO-DIMM used
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system	
Memory - upgrade	1 socket available for JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)	
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (no optional cable)	
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm	
Weight[2]	7.1 lbs (3.2 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange	
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side	
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)	
Docking Station	None	
Port replicator	None	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 **CardBus 32-bit PCI / Zoomed Video support in lower slot**	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS	
Video in/out	None	
Data/fax modem	None	**56Kbps PC Card modem** ActionTec® DataLink / K56flex™
Audio support	**16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715** Internal stereo speakers / .5 watt / Fn key volume control / internal microphone	
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)	
Telephone	None	
Infrared ports	None	
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization	
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)	
Limited warranty[11]	**1 year** - carry-in	

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
  - Internet Explorer 4.0
  - AOL, AT&T WorldNet, CompuServ
  - Media Player
    - ActiveMovie (MPEG-1, AVI)
    - Video for Windows
    - CD Audio Player
    - MIDI Sequencer
1. Lotus® SmartSuite 97
  - WordPro Work Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
  - ScreenCam
2. IBM Anti-Virus
3. PointCast (with ThinkPad Channel)
4. ThinkPad Customization Icon
5. Notebook Manager
6. Ergonomics
7. IntelliQuest Registration Mailer
8. Password Protected Marketing Demo
9. PhoenixCard Manager
- (no diskette factory)

CD-ROMs included in shipping carton:
- Application CD-ROM (includes Lotus SmartSuite 97, W95/W31/DOS device drivers, preloaded applications)
- Windows 95 CD-ROM (no installation; includes Setup Boot Diskette)

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

No suspend mode; has standby and hibernation mode

FEATURES

Plug and Play 1.0a
Standby and hibernation modes
Color LED indicator
ENERGY STAR compliant
Personalized nameplate indention
Year 2000 ready
International Warranty Service[14]
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.

Fn + F1 = Hot key help
Fn + F2 = Brightness/contrast
Fn + arrows = Adjust brightness/contrast
Fn + F3 = LCD/CRT/Simultaneous
Fn + F4 = Fuel gauge
Fn + F5 = Audio volume
Fn + arrows = Adjust volume
Fn + F6 = Power mgmt and system info
Fn + F7 = Standby
Fn + F8 = Hibernation
Fn + Esc = Close Hot key icon

OPTIONS

- 2.1GB disk 13/14ms (user upgradeable)   11J8643
- 3.2GB disk 12ms (user upgradeable)   05K8864
- NiMH Battery   11J8639
- AC Adapter, 3 prong, US pwr cord, 45 wa   11J8702
- 16MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8636
- 32MB SO DIMM 3.3v NP EDO 64-bit, gold   11J8637
- PCMCIA 33.6Kbps International Data/Fax   42H4319
- PCMCIA 33.6Kbps Modem w/ XJACK   55H6759
- 56K PC Card Modem Kit   04K0052

IBM ThinkPad 345 (non-US) - withdrawn

IBM® ThinkPad®:	✂ **345CS** dual scan color		✂ **345C** TFT color		ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point

ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point
- ➪ **Entry priced ThinkPad**
- ➪ **Large color 10.4" dual scan or TFT display**
- ➪ **Fast IntelDX4 75/25 MHz**
- ➪ **Lightweight (5.2 or 5.5 pounds)**
- ➪ **TrackPoint III**

Processor type	**IntelDX4**	
Processor speed	**75/25 MHz** / 3.3 volt	
Memory cache	16 KB internal (no L2 cache)	
Coprocessor socket	Integrated in DX4	
Processor / L2 upgrade	None	
Diskette drive	3.5" 1.44 MB (not removable)	
Removable CD-ROM	None	

Price	$	$	$	$
Type - model	2610-EYF	2610-EYG	2610-FYF	2610-FYG
IDE disk - size	**360 MB**	**540 MB**	**360 MB**	**540 MB**
Hard drive - speed	13 ms	13 ms	13 ms	13 ms
Avail / withdrawn date	Sep 1995 / Jan 1996		Sep 1995 / Apr 1996	

Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors	256 simultaneous colors
Display - techology	**Dual Scan** - passive matrix	**Black Matrix TFT - active matrix**
Display - diagonal size	**10.4 inch**	**10.4 inch**
Display - contrast ratio	20 to 1	100 to 1
180 degree display tilt	Yes	Yes

Graphics - controller	WD90C24A Rev C with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 60 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5 volt	Memory upgraded via 1 open socket for IC DRAM memory card for 20 MB max
Mem - sockets empty	1 socket	
Mem - options available	4, 8, 16 MB IC DRAM	

Keyboard / # of keys	Full size alp/num / 85 keys / quiet keyboard
Fn key functions	7 (in any appl)
Keyboard slope	None
Mouse/pointing	**TrackPoint III**™ (no drag lock)
Ext keyboard support	Yes (with optional cable)

PREINSTALLED APPLICATIONS
- IBM PC DOS 7.0
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail, for the IBM Global® network,
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0,
4. Triton CoSession™ Host,
5. PRODIGY®;
6. SofNet FaxWorks™ 3.0
7. AlphaNet™ FollowFax™
8. Sedona REPRINT™
9. Video for Windows™ 1.1 Runtime

Dimensions	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.0"
Cubic inches	184 inches	194 inches
Color	Black	Black
Weight (with battery)	5.2 pounds	5.5 pounds

Battery - type	Nickel hydride (NiMH) / non-intelligent	Fn key functions:
Batt - life (per battery)	2.5 to 5 hours	- Fuel guage (battery)
Charge time - on / off	2 hrs / 1.5 hr	- Standby mode
Architecture	AT bus (ISA)	- Suspend mode
Docking Station	None	- Audio volume
Port replicator	None	- LCD or CRT or both
PCMCIA™ 2.1 slots	1 Type I or 1 Type II or 1 Type III	- Power management mode
Serial / parallel ports	Yes (one 9 pin) 16550A / Yes (EPP)	- Hibernation mode

Other features	APM-aware BIOS / Selectable boot
	AC adapter, 35 watts, worldwide, 3 pin, not wallmount
Audio support	Audio beep only
Security	Power-on password
	Locking device keyhole (Kensington™ MicroSaver™ cablelock)

Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	None

The ThinkPad 345 family has the same physical design as the ThinkPad 340

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Hard disk and diskette drive are not removable. Keyboard does not lift up.

Options for 345:

- 4 MB IC DRAM 70 ns Parity   92G7232
- 8 MB IC DRAM 70 ns Parity   92G7233
- 16 MB IC DRAM 70 ns Parity   92G7234
- 4 MB IC DRAM 70 ns non-Parity 92G7236
- 8 MB IC DRAM 70 ns non-Parity 92G7237
- 16 MB IC DRAM 70 ns non-Parity 92G7424

- NiMH Battery Pack (Worldwide)   85G7637
- NiMH Battery Pack (Japan)   95G7638
- NiMH Battery Pack (EMEA)   85G7605
- 35 watt AC Adapter (Worldwide) 85G6680
- 35 watt AC Adapter (Japan)   85G6682
- 35 watt AC Adapter (EMEA)   85G6683

IC DRAM parity memory from the above options will work but without parity

FEATURES OF 345 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
❑ = Upgradeable;   ◯ = Removable;   ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(345) Compiled by Roger Dodson, IBM. May 1996

IBM ThinkPad 350, 350C, 500, 510Cs - withdrawn

IBM® ThinkPad®:	✂ 350 monochrome		✂ 350C passive color		✂ 500 sub-notebook		✂ 510Cs color sub-notebook
Processor type	All: 80486 SL (no math co)				80486 SLC2		Blue Lightning 486BL2-50
Processor speed	All: 25 MHz				50/25 MHz		50/25 MHz
Memory cache	All: 8 KB internal (no L2)				16 KB internal (no L2)		16 KB internal (no L2 cache)
Coprocessor socket	All: No				No		No
Diskette drive	All: 3.5" 1.44 MB				External 3.5" 1.44 MB		External 3.5" 1.44 MB (9 oz.)
Price (retail USD)	$ 1,499	$ 1,899	$ 1,599 ♣	$ 1,999 ♣	$ 799 ♣	$ 999 ♣	$ 1,799 ♣
Type - model	2618-J0A	2618-L0A	2618-N0A	2618-P0A	2603-08N	2603-17N	2604-C2U
Hard drive - size	125 MB	250 MB	125 MB	250 MB	85 MB	170 MB	200 MB
Hard drive - speed	15 ms	12 ms	15 ms	12 ms	15 ms	15 ms	17 ms
Avail / withdrawal date	June 93 / withd Sep 94		June 93 / withd Sep 94		Dec 93 / withd Jan 95		June 94 / w May 95
Display - type	VGA mono		VGA color		VGA mono		VGA color
Display - grey scales	64 grey scales		256 colors 640 x 480		64 grey scales		256 colors 640 x 480
Display - techology	STN		STN - passive matrix		STN		STN - passive matrix
Display - light source	LCD - Backlit		LCD - Backlit		LCD - backlit		LCD - backlit
Display - size (diag)	9.5 inch		9.2 inch		7.24 inch		7.7 inch
Display - contrast ratio	18 to 1		13 to 1; Single scan		18 to 1		14 to 1; Single scan
180 degree display tilt	Yes (external SVGA)		Yes (external SVGA)		Yes (external SVGA)		Yes (external SVGA)
Graphics - controller	All: 65530 / External VGA is ISO capable (75Hz)				WD90C26		WD90C24A2 / 1 MB video mem
Graphics - vendor	All: Chips & Tecnologies, Inc.				Western Digital		Western Digital
Graphics - arch/data path	All: Local bus / 16 bit / Peripheral Interface				ISA 16 bit		VL-Bus / VESA 32 bit local bus
Memory - std / max	All: 4 / 20 MB 80 ns				4 / 12 MB 80 ns		4 / 20 MB 80 ns
Mem - sockets empty	All: 1 socket (non-parity)				1 socket (non-parity)		1 socket (non-parity)
Mem - options available	All: 4, 8, 16 MB SIMMs				4, 8 MB ICs (3.3 volt)		4, 8, 16 MB ICs (3.3 volt)
Keyboard / # of keys	All: Full size alp/num/ 85				90% size alp/num/ 81		90% size alp/num/ 81
Fn key functions	All: 2 (in any appl)				11 (in any appl)		15 (in any appl)
Keyboard slope	All: Yes (back panel)				No		No
Mouse/pointing	All: TrackPoint II™				TrackPoint II		TrackPoint II
Ext keyboard support	All: Yes (with opt cable)				No		Yes (on MultiPort)
Dimensions	11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.0"		10.1 x 7.2 x 1.6"		10.1 x 7.2 x 1.7"
Cubic inches	184 inches		194 inches		116 inches		124 inches
Carrying case	Many options		Many options		Many options		Many options
Color	Black		Black		Black		Black
Weight (with battery)	5.2 pounds		5.8 pounds		3.4 pounds / 3.7 (170M)		4.0 pounds
Battery - type	Nickel hydride (NiMH)		Nickel hydride (NiMH)		Nickel hydride (NiMH)		Nickel hydride (NiMH)
Batt - life (per battery)	2.7 to 9 hours		2 to 7.5 hours		3.5 to 9 hours		2.5 to 8 hours
Charge time - on / off	2 hrs / 1 hr		2 hrs / 1 hr		3 hrs / 1.5 hrs		2.5 hrs / 1.5 hrs
Architecture	All: AT bus (ISA)				AT bus (ISA)		AT bus (ISA)
Docking Station	All: No				No (withdrawn 500		No
Port replicator	All: No				No had sealed lead		Yes (MultiPort ships standard)
Modem/serial slot	All: Modem only				No acid battery)		No
PCMCIA 2.01 slots	All: 1 Type I or 1 Type II				1 Type I or 1 Type II		1 Type I or 1 Type II
Visible LEDs - closed	All: Yes				Yes		Yes
Serial / parallel ports	All: Yes / Yes				Yes (cable) / Yes (EPP)		Yes (MultiPort) / Yes (EPP)
APM-aware BIOS	All: APM-aware BIOS				APM-aware BIOS		APM-aware BIOS
Other features	All: Wallmount AC adapter						Microsaver™ security connector
					Hibernation mode		Hibernation mode
	All: Personalized nameplate in indentation				Personalized nameplate		Personalized nameplate in indentation
	All: Coupon book with $4,000 in savings				Coupon book w/ sav		Personal greeting screen at startup
Preinstalled software	All: IBM DOS 5.02, PRODIGY®				IBM DOS 6.1, PRODIGY After July 1 only on 17N: see below		IBM DOS 6.3, Windows 3.1, Demo, and 8 appls listed below
Warranty	All: 1 year - carry in or EasyServ (opt onsite)				1 year - carry in or EasyServ (opt onsite)		1 year - carry in or EasyServ (optional onsite for $40 a year)

Fn+F2 = Fuelguage
Fn+F3 = Setup
Fn+F4 = Suspend
Fn+F5 = Speaker
Fn+F6 = Sysrequest
Fn+F7 = CRT/LCD
Fn+F8 = Rev video
Fn+F9 = Num Lock
Fn+F10 = Scroll Lock
Fn+F11 = Print Scrn
Fn+F12 = Hibernation

Suspend/resume buttn above keyboard
Fn+F1= Configuration Utility
Fn+F2= Reverse video
Fn+F3= Contrast text

Fn + Q = Inc brightness
Fn + A = Dec brightness
Fn + W = Inc contrast
Fn + S = Dec contrast

Enter Setup by CTRL+ALT+F3 from DOS prompt

FEATURES OF 500 and 510Cs

500: External cable has 2 connectors for serial port and external diskette drive

510: External cable has 1 connector for external diskette drive (serial port on MultiPort).

MultiPort: A port replicator with connectors for diskette drive, external display, mouse/keyboard, and serial device (ships with 510Cs). Plugs into 160 pin connector on back.

3 power saving modes: doze, suspend, hibernation.

Batteries in 500 and 510Cs are NOT compatible

✂ Withdrawn from marketing

SOFTWARE PREINSTALLED ON 500-17N (after July 1, 1994) and 510Cs

IBM DOS 6.3, Windows 3.1, Demo, and 8 appls:
① Lotus cc:Mail, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk 1.0, ⑤ Triton CoSession Host, ⑥ PRODIGY, ⑦ America Online, ⑧ SofNet FaxWorks 3.0

EasyPlaying (PC Card Director™) is preloaded and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers).

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

ThinkPad 500 memory (4, 8 MB IC 3.3 volt) is compatible with ThinkPad 510Cs.

ThinkPad 510Cs MultiPort is NOT compatible with ThinkPad 500.

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
♣ Price decrease effective July 13 (350C) and Aug 18 (510), 1994.

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IBM ThinkPad 355 - withdrawn

IBM® ThinkPad®:	355 monochrome	355Cs dual scan color		355C TFT color		ALL 355 MODELS
Processor type	*All:* **80486 SX** (no math coprocessor)					***Liftable (pop-up) keyboard* to access and remove:**
Processor speed	*All:* **33MHz** 3.3 volt (SL Enhanced)					① **diskette drive**
Memory cache	*All:* 8KB internal (no L2 cache)					② **disk**
Coprocessor socket	*All:* No					③ **battery**
Removable diskette	*All:* 3.5" 1.44MB ○					④ **memory**
Price (retail USD)	$ 1,899	$ 2,599	$ 2,849	$ 3,399	$ 3,749	
Type - model	2619-I15	2619-K20	2619-K25	2619-L50	2619-L55	
Removable disk - size	**125MB** ☑	**170MB** ☑	**250MB** ☑	**125MB** ☑	**250MB** ☑	
Hard drive - speed	15ms ○	15ms ○	14ms ○	15ms ○	14ms ○	
Available date	June 94	June 94	June 94	July 94	July 94	
Display - type	VGA mono	**VGA color**		**VGA color**		
Display - grey scales	64 grey scales 640x480	256 colors 640 x 480		256 colors 640 x 480		
Display - techology	STN	STN - passive matrix		**TFT - active matrix**		
Display - light source	LCD - Backlit	LCD - Backlit		LCD - Backlit		
Display - size (diag)	9.5 inch	9.5 inch **Dual scan**		8.4 inch		
Display - contrast ratio	18 to 1	20 to 1		100 to 1		
180 degree display tilt	Yes	Yes		Yes		

Graphics - controller	*All:* WD90C24A2 with 1MB DRAM / Graphics WinMarks 4.0 = 3.7
Graphics - vendor	*All:* Western Digital / External SVGA to 1024x768 with 256 colors
Graph - arch/data path	*All:* VL-Bus / 32-bit VESA local bus / Simultaneous LCD and CRT

Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (355C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.

Memory - std / max	*All:* 4 / 20MB 70ns
Mem - sockets empty	*All:* 1 socket (non-parity)
Mem - options available	*All:* 4, 8, 16MB ICs (5.0 volts)

Keyboard / # of keys	*All:* Full size alp/num/ 85	Fn + F2 = Fuel guage Fn + F7 = Ext display/LCD
Fn key functions	*All:* 10 (in any appl)	Fn + F3 = Standby Fn + F8 = Reverse video (mono)
Keyboard slope	*All:* Yes (legs pop out)	Fn + F4 = Suspend Fn + F9 = Hi-intensity text (mono)
Mouse/pointing	*All:* **TrackPoint II**™	Fn + F5 = Audio off/down Fn + F11 = Power mgmt
Ext keyboard support	*All:* Yes (with optional cable)	Fn + F6 = Audio on/up Fn + F12 = Hibernation mode

Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"
Cubic inches	165 inches	194 inches	185 inches
Carrying case	Many options	Many options	Many options
Color	Black	Black	Black
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr

Architecture	*All:* AT bus (ISA)
Docking Station	*All:* No
Port replicator	*All:* No
Data/fax modem	*All:* 2400 data / 4800 receive fax / 9600 send fax
PCMCIA 2.01 slots	*All:* **1 Type I or 1 Type II or 1 Type III**
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes

An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 355 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).

Other features	*All:* APM-aware BIOS / Selectable boot
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts
	All: **Hibernation mode** saves memory to disk and shuts off system
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base
Preinstalled software	*All:* MS DOS 6.21, Windows 3.1, Demo, and 8 applications: ① Works for Windows, ② ThinkPad Fitness, ③ ThinkPad Index, ④ Official Airline Guide Flight Disk**®** 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0
Warranty	*All:* 1 year - carry in to retailer or EasyServ (optional onsite for $40)

The ThinkPad 355 family has the same physical design as the ThinkPad 360, 750, and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 355, 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 355, 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810MB)
- 1.44MB diskette drive
- CDPD Mobile Communications Module
- Keyboard/mouse connector
- 355 battery does not work in ThinkPad 750/ 755, but 750/755 battery will work in 355
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 355 (or 360).
IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 355C:
- TV tuner

FEATURES

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75Hz)
Upgradeable disks: 170MB, 250MB, 340MB, 540MB, 810MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
IBM or retailer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

IBM ThinkPad 360 - withdrawn

IBM® ThinkPad®:	✂ **360** monochrome	✂ **360Cs** dual scan color	✂ **360C** TFT color	✂ **360P** color pen	✂ **Traveling Multimedia** preconfigured system
Processor type	*All:* **80486 SX** (no math coprocessor)			The 360P supports **pen** based applications	A preconfigured, multimedia **360Cs;** Available June 94; Withdrawn May 1995 Part #2337290 $ 5,299
Processor speed	*All:* **33 MHz** 3.3 volt (SL Enhanced)		*The removed diskette drive can be used externally via the*		
Memory cache	*All:* 8 KB internal (no L2 cache)		*optional 'FDD External Kit' (includes cable and enclosure;*		
Coprocessor socket	*All:* No		*$135) to the Port Replicator Model I and II and Dock I.*		
Removable diskette	*All:* 3.5" 1.44 MB ◯				Included with the IBM Traveling Multimedia:

	360	360Cs	360C	360P	
Price (retail USD)	$ 1,899 / $ 2,299	$ 2,349 / $ 2,749	$ 2,299 ♣ / $ 2,599 ♣	$ 2,899 / $ 3,399	Hardware:
Type - model	2620-00D / 2620-00F	2620-20D / 2620-20F	2620-30D / 2620-30F	2620-50D / 2620-50F	- 360Cs (all features listed on left)
Removable disk - size	**170 MB** ▢ / **340 MB** ▢	**170 MB** ▢ / **340 MB** ▢	**170 MB** ▢ / **340 MB** ▢	**170 MB** ▢ / **340 MB** ▢	- 16 bit Mwave® audio chip on adapter card
Hard drive - speed	15 ms ◯ / 14 ms ◯	15 ms ◯ / 14 ms ◯	15 ms ◯ / 14 ms ◯	15 ms ◯ / 14 ms ◯	- Stereo in/out jacks
Available date	May 94 / withd May 95	May 94 / withd Dec 95	June 94 / withd Dec 95	June 94 / withd Dec 95	- 340 MB removable hard disk
Display - type	VGA mono	**VGA color**	**VGA color**	**VGA color**	- 8 MB memory (4 MB std + 4 MB IC DRAM)
Display - grey scales	64 grey scales 640x480	256 colors 640 x 480	256 colors 640 x 480	256 colors 640 x 480	- 14.4 Data/Fax modem (PCMCIA)
Display - techology	STN	STN - passive matrix	**TFT - active matrix**	STN - passive matrix	- Dock I (Docking Station)
Display - light source	LCD - Backlit	LCD - Backlit	LCD - Backlit	LCD - Backlit	- CD-ROM/XA - double speed and Kodak Photo CD multisession
Display - size (diag)	9.5 inch	9.5 inch **Dual scan**	8.4 inch	9.5 inch **Dual scan**	- Dock I Carrying Case
Display - contrast ratio	18 to 1	20 to 1	100 to 1	18 to 1	- Interlink® ProPoint™
180 degree display tilt	Yes	Yes	Yes	Yes	
Graphics - controller	*All:* WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 3.7			Incudes untethered stylus to write on pen-enabled screen	Software:
Graphics - vendor	*All:* Western Digital / External SVGA to 1024 x 768 with 256 colors				- Asymetrix® COMPEL™ (on screen multimedia presentations)
Graph - arch/data path	*All:* VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT				- Asymetrix MediaBlitz!™ (library of media clips)
Memory - std / max	*All:* 4 / 20 MB 70 ns	*Diskette drive can be removed ① to reduce weight, ② to insert*			- LapLink® V
Mem - sockets empty	*All:* 1 socket (non-parity)	*cellular modem (CDPD), ③ (360C only) to insert TV Tuner (on*			- Picture Factory™
Mem - options available	*All:* 4, 8, 16 MB ICs (5.0 volts)	*screen TV/VCR playback), or ④ to add other third party options.*			- TalkWorks™
Keyboard / # of keys	*All:* Full size alp/num/ 85	Fn + F2 = Fuel guage Fn + F7 = Ext display/LCD			- Sound Effects Library™
Fn key functions	*All:* 10 (in any appl)	Fn + F3 = Standby Fn + F8 = Reverse video (mono)			- ClickART™ 2000
Keyboard slope	*All:* Yes (legs pop out)	Fn + F4 = Suspend Fn + F9 = Hi-intensity text (mono)			
Mouse/pointing	*All:* **TrackPoint II**™	Fn + F5 = Audio off/down Fn + F11 = Power mgmt			**ALL 360 MODELS** *Liftable (pop-up) keyboard* **to access and remove diskette drive, disk, battery, and memory**
Ext keyboard support	*All:* Yes (with optional cable)	Fn + F6 = Audio on/up Fn + F12 = Hibernation mode			
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.1"	
Cubic inches	165 inches	194 inches	185 inches	204 inches	
Carrying case	Many options	Many options	Many options	Many options	
Color	Black	Black	Black	Black	
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds	6.8 pounds	
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride	Nickel hydride	
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours	3.3 to 7 hours	
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr	
Architecture	*All:* AT bus (ISA)		*An intelligent battery (standard in ThinkPad 750*		
Docking Station	*All:* **Yes** (Dock I and II; same as 750/755)		*and 755) is optional. The ThinkPad 360 battery*		
Port replicator	*All:* **Yes** (Port Replicator I and II)		*is lower cost, easy to use because no storage-*		
Modem/serial slot	*All:* No		*switch control is required, and shows % of*		
PCMCIA 2.01 slots	*All:* **2 Type I or 2 Type II or 1 Type III**		*remaining power (compared to hours of remaining*		
Serial / parallel ports	*All:* Yes (one 9 pin) / Yes (EPP)		*power).*		
Other features	*All:* APM-aware BIOS / Selectable boot				
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts				
	All: **Hibernation mode** saves memory to disk and shuts off system				
Security	*All:* Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base				
Preinstalled software	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications:			**360P** includes software to left and	
	① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12,			① PenDOS® 2.2, ② IBM ThinkWrite,	
	③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0,			③ Windows for Pen Computing 1.0	
	⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0				
Warranty	*All:* 1 year - carry in or EasyServ (optional onsite for $40) / International travelers warranty				

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755.

EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 360, 510Cs, and 755 family.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.

Compatible in all 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- 1.44 MB diskette drive
- Dock I and Dock II
- Port Replicator I and Port Replicator II
- CDPD Mobile Module (not pen models)
- FDD (diskette) External Attachment kit
- Keyboard/mouse connector
- 360 battery does not work in ThinkPad 750/ 755, but 750/755 battery will work in 360
- Quick Charger
- AC Adapter

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

ThinkPad 750 and 755 options compatible ONLY in ThinkPad 360C:
- TV tuner and AD card

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at 1-800-772-2227

Winstone 94 for 360C = 26.4

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
STN = Super twisted nematic; ▢ = Upgradeable; ◯ = Removable
♣ Price decrease effective January 26, 1995; ✂ Withdrawn from marketing

IBM ThinkPad 360CSE / CE - withdrawn

IBM® ThinkPad®:	✂ **360CSE** dual scan color	✂ **360CE** TFT color	The 360CSE / CE is the same as the 360 (older models) except:	
			360	**360CSE / CE**
Processor type Processor speed Memory cache Coprocessor socket Removable diskette Removable CD-ROM	**80486 DX2** **50/25 MHz** 3.3 volt (SL Enhanced) 8 KB internal (no L2 cache) Integrated in 486DX2 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette None		Mono, Dual scan, TFT, Pen 486SX - 33 MHz No math cop possible 170, 340 MB std models	Dual scan, TFT 486DX2 - 50/25 MHz Integrated math cop 170, 340, 540 MB std More preloaded appls

Price (retail USD)	$ 2,399 ♣	$ 2,699 ♣	$ 3,049 ♣	$ 2,799 ♣	$ 3,099	$ 3,449	**ALL 360 MODELS**
Type - model	2620-80D	2620-80F	2620-80G	2620-90D	2620-90F	2620-90G	*Liftable (pop-up) keyboard to*
Removable disk - size	**170 MB ❏**	**340 MB ❏**	**540 MB ❏**	**170 MB ❏**	**340 MB ❏**	**540 MB ❏**	*access and remove diskette*
Hard drive - speed	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	*drive, disk, battery, and*
Available date	Oct 94 / withdrawn Dec 95			Oct 94 / withdrawn Dec 95			*memory*

Display - type Display - colors Display - techology Display - size (diag) Display - contrast ratio 180 degree display tilt	**VGA color** / 640 x 480 256 simultaneous colors **Dual scan** - passive matrix **9.5 inch** 20 to 1 Yes	**VGA color** / 640 x 480 256 simultaneous colors **TFT - active matrix** **8.4 inch** 100 to 1 Yes

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I and II.

Graphics - controller Graphics - vendor Graph - arch/data path	WD90C24A or A2 with 1 MB DRAM Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz) VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Diskette drive can be removed
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

Memory - std / max Mem - sockets empty Mem - options available	4 MB / 20 MB 70 ns / non-parity / 5.0 volt 1 socket 4, 8, 16 MB ICs

Keyboard / # of keys Fn key functions Keyboard slope Mouse/pointing Ext keyboard support	Full size alp/num / 85 keys 8 (in any appl) Yes (legs pop out) **TrackPoint II**™ Yes (with optional cable)

PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features

Dimensions Cubic inches Color Weight (with battery)	11.7 x 8.3 x 2.0" 194 inches Black 6.2 pounds	11.7 x 8.3 x 1.9" 185 inches Black 6.1 pounds

Battery - type Batt - life (per battery) Charge time - on / off	Nickel hydride (NiMH) 2.9 to 7 hours 2 hrs / 1.5 hr	Nickel hydride (NiMH) 3.2 to 7 hours 2 hrs / 1.5 hr

1. Lotus® cc:Mail, e-mail for Advantis® network,
2. Lotus Organizer 1.12,
3. Lotus ScreenCam 1.0,
4. Official Airline Guide Flight Disk® 1.0,
5. Triton CoSession™ Host,
6. PRODIGY®,
7. America Online℠,
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network

Architecture Docking Station Port replicator Modem/serial slot PCMCIA™ 2.1 slots Serial / parallel ports	AT bus (ISA) Dock I and II Port Replicator I and II No **2 Type I or 2 Type II or 1 Type III** Yes (one 9 pin) 16550B / Yes (EPP)

Other features Security	APM-aware BIOS / Selectable boot Some models will have Wallmount AC adapter without powercord with retractable prongs, 30 watts **Hibernation mode** saves memory to disk and shuts off system Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base

Preinstalled software Warranty	IBM DOS 6.3, Windows™ 3.11, and all appls listed to right: 1 year - carry in or EasyServ (optional onsite for $40)

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

Battery compatibility:	All 360	All 750	755 C/ CS	755 CE/ CSE/ CD
84G2392 360 NiMH battery	Y	N	N	N
66G2846 750 NiMH battery	Y	Y	Y	N
85G1513 NiMH Batt Pack II	N	N	N	Y

Y = battery supported; N = not supported

Compatible in all 360 family, 360CSE / CE, 750 family, 755 family, 755CSE / CE, 755CD:
- Disks: 170 MB IDE disk   66G2849
      250 MB IDE disk   84G2391
      340 MB IDE disk   66G2849
      540 MB IDE disk   84G2150
      810 MB IDE disk   84G8250
- Dock I   (1 slot / 1 bay)   3450001
- Dock II (2 slot / 2 bay)   84G3587
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108

Options for 360 (not pen), 360CSE / CE, 750 (not pen), 755, 755CSE / CE:
- CDPD Mobile module   71G2560

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

Options only for TFT models - 360C, 360CE, 750C, 755C, 755CE, 755CD:
- TV Tuner   66G3689

FEATURES OF 360 FAMILY

3 power saving modes: standby, suspend, and hibernation

Personalized nameplate in molded indentation

External VGA is ISO capable (75 Hz)

Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)

Battery life indicator

Non-disruptive battery exchange

US EPA Energy Star compliant

HELPWARE

1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
      board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❏ = Upgradeable; ○ = Removable; ♣ Price decrease effective February 14, 1995.

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No warranties are expressed or implied in this summary
(360E) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 360PE - withdrawn

IBM® ThinkPad®:	✂ **360PE** dual scan color - pen

Processor type	**80486 DX2**
Processor speed	**50/25 MHz** 3.3 volt (SL Enhanced)
Memory cache	8 KB internal (no L2 cache)
Coprocessor socket	Integrated in 486DX2
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette
Removable CD-ROM	None

The ThinkPad 360PE has the same features as 360CSE except:
- ➪ **Pen enabled display**
- ➪ **Untethered batteryless stylus (pen)**
- ➪ **Display folds down to flat position to write on**
- ➪ **16 bit audio codec** (vs no audio)
- ➪ **Audio in and audio out jacks**
- ➪ **PenDOS, Pen Windows, and Monologue preinstalled**
- ➪ **35 watt universal AC adapter** (vs 30 watt)

Price (retail USD)	$ 3,699	$ 4,049
Type - model	2620-BOF	2620-BOG
Removable disk - size	**340 MB** ❏ ○	**540 MB** ❏ ○
Hard drive - speed	14 ms	14 ms
Avail / withdrawn date	April 1995 / June 96	July 1995 / June 1996

ALL 360 MODELS
Liftable (pop-up) keyboard **to access and remove diskette drive, disk, battery, and memory**

Display - type	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors
Display - techology	**Dual scan** - passive matrix
Display - size (diag)	**9.5 inch /** 20 to 1 contrast ratio
Display - pen enabled	**Pen enabled screen / folds flat / includes untethered batteryless stylus**

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed
① to reduce weight
② to add other third party options

Graphics - controller	WD90C24A or A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt
Mem - sockets empty	1 socket
Mem - options available	4, 8, 16 MB ICs

Keyboard / # of keys	Full size alp/num / 85 keys	**Memory options:**
Fn key functions	8 (in any appl)	
Keyboard slope	Yes (legs pop out)	4 MB IC DRAM 70 ns 5v parity 92G7232
Mouse/pointing	TrackPoint II™	8 MB IC DRAM 70 ns 5v parity 92G7233
Ext keyboard support	Yes (with optional cable)	16 MB IC DRAM 70 ns 5v parity 92G7234
		4 MB IC DRAM 70 ns 5v non-parity 92G7236
Dimensions	11.7 x 8.3 x 2.1"	8 MB IC DRAM 70 ns 5v non-parity 92G7237
Cubic inches	204 inches	16 MB IC DRAM 70 ns 5v non-parity 92G7424
Color	Black	
Weight (with battery)	6.8 pounds	

PREINSTALLED APPLICATIONS
- IBM PC DOS 6.3
- **PenDOS® 2.2**
- **IBM ThinkWrite 1.21**
- Windows 3.11
- **Windows for Pen computing® 1.0**
- IBM PC Card Director for PCMCIA
- Online Users Guide
- ThinkPad features
1. Lotus® cc:Mail, for the IBM Global® network
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0
4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host
6. PRODIGY®
7. America Online℠
8. SofNet FaxWorks™ 3.0
9. Taxi™
10. Second Nature Screen Saver
11. Farallon® Replica™
12. AlphaNet™ FollowFax™
13. Sedona REPRINT™
14. COMPEL™ Personal Edition
15. Reuters℠ Money® Network
16. Monologue™

Battery - type	Nickel hydride (NiMH)
Batt - life (per battery)	3 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) / Yes (EPP)

Audio support	**16 bit audio codec on planar /** Crystal Semiconductor™ CS4248 / int speaker
Audio in/out jack	Input jack / output jack
Other features	APM-aware BIOS / Selectable boot
	AC adapter, 35 watts, worlwide, not wallmount
	Hibernation mode saves memory to disk and shuts off system
Security	Power-on password / Hard disk password / Hardware security loop (secures unit, prevents opening keyboard) / PCMCIA card lock / Optional Security Base

Preinstalled software	IBM DOS 6.3, Windows™ 3.11, pen op systems, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only / ThinkPad EasyServ Overnight Repair Option

The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.

PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/ removal of cards;
③ ability to automatically launch an appl (e.g. async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.

ThinkPad 360PE supported batteries:

- 360 NiMH battery 84G2392
- 750 NiMH battery 66G2846
- 750 QuickCharger 66G2843

Compatible in all 360 family, all 750 family, and all 755 family:
- Disks: 170 MB IDE 66G2847
         250 MB IDE 84G2391
         340 MB IDE 66G2849
         540 MB IDE 84G2150
         810 MB IDE 84G8250
- Dock I (1 slot / 1 bay) 3545001
- Dock II (2 slot / 2 bay) 3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II 66G3520
- 1.44 MB diskette std in newer

Options for 360PE:
- AC Adapter, 35 watts 85G6680
- AC Adapter, 40 watts 49G2165
- AC Adapter, 40 w, wallmount 84G2148
- Car Battery Adapter 49G2167

Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity.

FEATURES OF 360 FAMILY
3 power saving modes: standby, suspend, and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

1 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❏ = Upgradeable;   ○ = Removable;   ✂ = Withdrawn from marketing
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No warranties are expressed or implied in this summary
(360PE) Compiled by Roger Dodson, IBM. June 1996

IBM ThinkPad 365 (non-CD-ROM models) - withdrawn

IBM® ThinkPad®:	✄ 365CS 10.4" dual scan	✄ 365C 10.4" TFT
Processor	Cyrix Cx486DX4™ 75/25 MHz / integrated math coprocessor	
Processor upgrade	None	
Memory cache	8 KB in DX4 (write back) / no L2 cache	
Diskette drive	Internal 3.5" 1.44 MB (not removeable)	
CD-ROM	None (cannot upgrade)	

Price						
Type - model **all 2625**	203	W11	205	W12	2625-305	2625-W13
Part number	38H5711	41H8660	38H5712	41H8661	38H5714	41H8662
Preload (see side)	SelSys	Win 95	SelSys	Win 95	SelectaSystem	Windows 95
Disk - capacity	**340 MB**	**340 MB**	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 1995 / Jun 96

	365CS	365C
Display - diagonal size	**10.4" Dual scan**	**10.4" Black Matrix TFT** - active matrix
Display - type	**VGA color / 640 x 480**	**VGA color / 640 x 480**
Display - colors	256 simultaneous colors	**262,144 simultaneous colors**
Display - contrast	30 to 1	100 to 1
Graphics - controller	Chips and Technologies™ 65545	Chips and Technologies 65545
Graphics - memory	512 KB DRAM	1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz	
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page	
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable*
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III™**	
Ext keyboard support	Yes (with option cable or Port Replicator)	
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)	
Weight (with battery)	5.9 pounds	5.8 pounds
Battery - type	NiMH / non-intelligent	
Battery - life	3 to 9 hours	
Charge time - on / off	6 hrs / 2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS	
MPEG decoder	None	
Data/fax modem	None	
Audio support	None	
Audio in/out jacks	None	
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**	
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)	
Preinstalled software	Choice of two preloaded configurations (listed to right)	
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3	38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger	38H6303
- NiMH Battery Pack	38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

ThinkPad 365 strengths:

- ➪ **Entry-priced notebook**
- ➪ **Extensive software preload**
- ➪ **Infrared port**
- ➪ **Optional Port Replicator with battery charger and palm rest**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserve for Windows

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

IBM ThinkPad 365 (CD-ROM models) - withdrawn

IBM® ThinkPad®:	✂ **365CSD** 10.4" dual scan - CD-ROM		✂ **365CD** 10.4" TFT - CD-ROM	
Processor	**Cyrix Cx 486DX4™ 75/25 MHz** / integrated math coprocessor			
Processor upgrade	None			
Memory cache	8 KB in DX4 (write-back) / no L2 cache			
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM			
CD-ROM (not remove)	**5.25" CD-ROM / double speed / multi-session / XA / front loaded / ATAPI**			

Price				
Type - model **all 2625**	2625-A05	2625-W14	2625-B05	2625-W15
Part number	38H5724	41H8663	38H5726	41H8664
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Disk - capacity	**540 MB**	**540 MB**	**540 MB**	**540 MB**
Disk - ms / interface	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date	Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96

Display - diagonal size	**10.4" Dual scan**	**10.4" Black Matrix TFT** - active matrix
Display - type	**VGA color / 640 x 480**	**VGA color / 640 x 480**
Display - color	256 simultaneous colors	**262,144 simultaneous colors**
Display - contrast	30 to 1	100 to 1

Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); **CD-ROM is not removable**
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III™**	
Ext keyboard support	Yes (with option cable or Port Replicator)	

Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)	
Weight (with battery)	6.4 pounds	6.3 pounds
Battery - type	NiMH / non-intelligent	
Battery - life	2.5 to 9 hours	
Charge time - on / off	6 hrs / 2 hrs	

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion)
	VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS

MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3**
	Internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo)
	Joystick/MIDI port (includes Joystick/MIDI cable)
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Supervisor password / Locking device keyhole
	(Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 720 MB EIDE HDD 13 ms PIO Mode 3	38H6306
- 810 MB EIDE HDD 13 ms PIO Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger	38H6303
- NiMH Battery Pack	38H6304

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F8 = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp = Speaker enable
PgDn = Speaker disable

System enters hibernation mode when keyboard is lifted up.

ThinkPad 365 (CD-ROM models) strengths:

➪ **Entry-priced CD-ROM notebook**
➪ **Integrated audio, microphone, speaker**
➪ **Simultaneous external diskette**
➪ **Joystick/MIDI port**
➪ **Infrared port**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications
- IBM PC Card Director™ 1.4
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features ; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Video For Windows™ Runtime
8. Puma TranXit™
9. Compuserv for Windows
10. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® Network
2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host
5. PRODIGY®
6. SofNet FaxWorks™
7. Puma TranXit™
8. Compuserve for Windows

Disk is not removable (like 755/760 systems), but it can be upgraded via tools

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
✂ = Withdrawn from marketing

IBM ThinkPad 365E - withdrawn

IBM® ThinkPad®:	✂ **365E**
	10.4" dual scan
Processor	**IBM 5x86c™ 100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write back) / no L2 cache
Diskette drive	Internal 3.5" 1.44 MB (not removeable)
CD-ROM	None (can not upgrade)

Price

Type - model	2625-W9A
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996

Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - colors	256 simultaneous colors
Display - contrast	30 to 1

Graphics - controller	Chips and Technologies™ 65545
Graphics - memory	1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard* **to access and remove battery (and upgrade memory and disk); diskette drive is not removable**
Keyboard slope	Yes (legs pop out)	
Pointing	**TrackPoint III™**	
Ext keyboard support	Yes (with option cable or Port Replicator)	

Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	5.9 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	6 hrs / 2 hrs

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion)
	VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS

MPEG decoder	None
Data/fax modem	None
Audio support	None
Audio in/out jacks	None
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on password / Supervisor password / Locking device keyhole
	(Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4
1. Triton™ CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin	92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin	92G7293
- 810 MB EIDE HDD 13 ms Mode 4	42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4	69H7956
- Port Replicator and Charger (old)	38H6303
replaced by	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter - 2 pin	85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn	+ F2	= Battery guage
Fn	+ F3	= Standby
Fn	+ F4	= Suspend
Fn	+ F7	= LCD/CRT/Simultaneous
Fn	+ F8	= Reverse video
Fn	+ F11	= Power mgmt
Fn	+ F12	= Hibernation
PgUp		= Speaker enable
PgDn		= Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
Plug and Play 1.0a
Non-disruptive battery exchange
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM® ThinkPad®:	✄ **365ED**
	10.4" dual scan - CD-ROM
Processor	**IBM 5x86c™ 100/33 MHz** (Cyrix) / integrated math coprocessor
Processor upgrade	None
Memory cache	16 KB in 5x86c (write-back) / no L2 cache
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed / multi-session / XA / front loaded / ATAPI**
Price	
Type - model	2625-W9G
Preload (see side)	Windows 95
Disk - capacity	**540 MB**
Disk - ms / interface	13 ms / EIDE / PIO Mode 3
Available date	May 1996
Withdrawn date	October 1996
Display - diagonal size	**10.4" Dual scan**
Display - type	**VGA color / 640 x 480**
Display - color	256 simultaneous colors
Display - contrast	30 to 1
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 24 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing	**TrackPoint III™**
Ext keyboard support	Yes (with option cable or Port Replicator)
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with battery)	6.4 pounds
Battery - type	NiMH / non-intelligent
Battery - life	2.3 hours
Charge time - on / off	6 hrs / 2 hrs
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion)
	VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3**
	Internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo)
	Joystick/MIDI port (includes Joystick/MIDI cable)
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / Supervisor password / Locking device keyhole
	(Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Windows 95 with utilities and applications (listed to right)
Warranty	**1 year -** ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable

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ThinkPad 365 (CD-ROM models) strengths:

⇨ **Entry-priced CD-ROM notebook**
⇨ **Integrated audio, microphone, speaker**
⇨ **Simultaneous external diskette**
⇨ **Joystick/MIDI port**
⇨ **Infrared port**
⇨ **MPC2 compliant**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4
1. Triton CoSession™ Host
2. Puma TranXit™
3. NetFinity for Windows
4. CompuServ™ for Windows

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365:

- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287
- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293
- 810 MB EIDE HDD 13 ms Mode 4   42H4012
- 1.08 GB EIDE HDD 13 ms Mode 4   69H7956
- Port Replicator and Charger   (old) 38H6303
      replaced by 75H7529
- NiMH Battery Pack   38H6304
- 35 watt AC Adapter - 2 pin   85G6719

Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt

Fn + F2   = Battery guage
Fn + F3   = Standby
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Fn + F7   = LCD/CRT/Simultaneous
Fn + F8   = Reverse video
Fn + F11 = Power mgmt
Fn + F12 = Hibernation
PgUp   = Speaker enable
PgDn   = Speaker disable

System enters hibernation mode when keyboard is lifted up

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Product Map
LED indicator panel
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Non-disruptive battery exchange
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Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM ThinkPad 365X - withdrawn

IBM® ThinkPad®:	✕ 365X 10.4" SVGA TFT or DSTN color		Key differences between 365E and 365X:

Key differences between 365E and 365X:

365E	365X
5x86c 100/33 MHz	Pentium 100, 120, 133
8 MB fast page (to 24 MB)	8 MB EDO (to 40 MB)
VL-Bus graphics and disk	PCI graphics and disk
10.4" VGA 640 x 480 LCD	SVGA 800 x 600
540 MB disk standard	810 MB or 1.08 GB disk
No integrated audio	16 bit audio
Phoenix BIOS	IBM BIOS with Easy Setup and ThinkPad Features

Processor type	**Pentium® 100/66** / 64 bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	Internal 3.5" 1.44 MB ○ (not removable)
External FDD port	External FDD port (used if purchase CD-ROM upgrade)
Internal CD-ROM	None standard / 4 x CD-ROM option available (not customer install)

Price		
Type - model	2625-6E7	2625-7E7
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 1996 / January 1997
Disk - size / ms	**810 MB** / 13 ms ○ / PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Dual scan	**Black Matrix TFT** - active matrix
	256 sim colors / 25 to 1 contrast ratio	65,536 simultaneous colors / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 40 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	*Liftable (pop-up) keyboard* to access and remove battery (and upgrade memory and disk); diskette drive is not removable
Weight	6.0 pounds (2.7 kg)	

Battery - type	NiMH / non-intelligent
Battery - life (1 batt)	2.5 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688**
	One internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 810 MB EIDE HDD 13 ms	42H4012
- 1.08 GB EIDE HDD 13 ms	69H7956
- 1.4 GB EIDE HDD 3L 12.5 mm	82H8161
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 365X 4 x CD-ROM Drive	73H7225
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

IBM ThinkPad 365X (Fall 1996 models) - withdrawn

IBM® ThinkPad®:	✂ **365X**
	10.4" SVGA TFT or 11.3" SVGA DSTN color

Processor type	**Pentium® 120/60 or 133/66 MHz** / 64 bit transfer to memory
Processor upgrade	None
L2 cache	None (not upgradeable)
Diskette drive	Internal 3.5" 1.44 MB m (not removable)
External FDD port	External FDD port (used if purchase CD-ROM upgrade)
Internal CD-ROM	None standard / 4 x or 8 x CD-ROM option available which includes an external diskette drive (not customer install)

Price		
Type - model	2625-3E9	2625-2E9
Preload (see side)	**Windows 95**	**Windows 95**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997
Pentium speed	**120/60 MHz**	**133/66 MHz**
Disk - size / ms	**810 MB** / 13 ms ◯ / PIO Mode 4	**1.08 GB** / 13 ms ◯ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Black Matrix TFT - active matrix	**Dual scan**
	65,536 simultaneous colors / 100 to 1	256 simultaneous colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 40 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.1 pounds (2.76 kg)	5.9 pounds (2.67 kg)
Battery - type	NiMH / non-intelligent	*Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable*
Battery - life	2.5 hours	
Charge time - on / off	1.5 hrs / 1.2 hrs	

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared)
	PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688**
	One internal speaker / .5 watt / dial volume control / internal microphone
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)

Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365X:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 810 MB EIDE HDD 13 ms	42H4012
- 1.08 GB EIDE HDD 13 ms	69H7956
- 1.4 GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1 GB HDD 13 ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 365X 4 x CD-ROM Drive	73H7225
- 8 x CD-ROM	83H6726

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM® ThinkPad®:	365XD 10.4" SVGA DSTN / 10.4" SVGA TFT / 11.3" SVGA DSTN	Key differences between 365ED and 365XD:	
		365ED	**365XD**
Processor type	**Pentium® 100/66 or 120/60 MHz** / 64 bit transfer to memory	5x86c 100/33 MHz	Pentium 100, 120, 133
Processor upgrade	None	8 MB fast page (to 24 MB)	8 MB EDO (to 40 MB)
L2 cache	None (not upgradeable)	VL-Bus graphics and disk	PCI graphics and disk
Diskette drive	External 3.5" 1.44 MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM	10.4" VGA 640 x 480 LCD	10.4" or 11.3" SVGA
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	540 MB disk standard	810 MB, 1.08, 1.35 GB
CD-ROM (not remove)	**5.25" CD-ROM / 4 x speed /** multi-session / XA / front loaded / ATAPI	Phoenix BIOS	IBM BIOS

Price				
Type - model	✂ 2625-6E3	✂ 2625-DEF	✂ 2625-DEE	✂ 2625-EEF
Preload (see side)	**Windows 95**	**Windows 95**	**OS/2 Warp Connect**	**Windows 95**
Avail / withdrawn date	May 1996 / January 1997	May 96 / Jan 97	July 1996 / Jan 1997	June 1996 / April 1997
Pentium speed	**100/66 MHz**	**120/60 MHz**		**120/60 MHz**
Disk - size / ms	**810 MB** / 13 ms ◯ / PIO Mode 4	**1.08 GB** / 13 ms ◯ / PIO Mode 4		**1.08 GB** / 13 ms ◯ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk			

Display - size and type	**10.4 inch DSTN color**	**10.4 inch TFT color**	**11.3 inch DSTN color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Dual scan	**Black Matrix TFT** - active matrix	**Dual scan**
	256 sim colors / 25 to 1 contrast ratio	65,536 sim col / 100 to 1 contrast ratio	256 sim colors / 30 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 40 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)
Keyboard slope	Yes (legs pop out)
Pointing / palm rest	**TrackPoint III™** / external keyboard support (w/ option cable or Port Replicator)

Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)
Weight	6.4 pounds (2.9 kg)

Battery - type	NiMH / non-intelligent
Battery - life	2.5 hours
Charge time - on / off	1.5 hrs / 1.2 hrs

Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable

Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics)
Docking Station	None
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Video in/out	None
MPEG decoder	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone**
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port
Infrared ports	**Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**

Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Puma TranXit™
2. NetFinity for OS/2
3. Triton CoSession™ Host
- Lotus SmartSuite 4.0 (entitled to SSuite 96)

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 810 MB EIDE HDD 13 ms	42H4012
- 1.08 GB EIDE HDD 13 ms	69H7956
- 1.4 GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1 GB HDD 13 ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
Plug and Play 1.0a
Doze, standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
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International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM ThinkPad 365XD (Fall 1996+ models) - withdrawn

IBM® ThinkPad®:	✂ **365XD** 10.4" SVGA TFT / 11.3" SVGA DSTN / 11.3" SVGA TFT - CD-ROM			
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM (not remove) CD-ROM features	**Pentium® 120/60 or 133/66 MHz** / 64 bit transfer to memory None None (not upgradeable) External 3.5" 1.44 MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM External FDD port (works with standard external diskette; no kit required) **5.25" CD-ROM / 4 x speed** | **5.25" CD-ROM / 6 x speed** (all systems upgradeable to 8 x CD-ROM) Multi-session / XA / front loaded / ATAPI / not bootable / upgradeable			
Type - model (code) Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	2625-4E9 (Clark 4) **Windows 95** October 1996 / July 1997 **120/60 MHz** **810 MB** / 13 ms ◯	2625-GE9 (Clark 4.5) **Windows 95 OSR2** Feb 1997 / July 1997 **120/60 MHz** **1.08 GB** / 13 ms ◯	2625-1E9 (Clark 4) **Windows 95** October 1996 / October 1997 **133/66 MHz** **1.35 GB** / 13 ms ◯ / PIO Mode 4 EIDE / busmaster / PCI 2.1 / supports one internal disk	2625-FE9 (Clark 4.5) **Windows 95 OSR2** February 1997 / October 1997 **133/66 MHz**
Display - size and type Display - techology	**10.4 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 sim col / 100 to 1 contrast ratio		**11.3 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 sim col / 100 to 1 cont ratio	**11.3 inch DSTN color** **SVGA** / 640 x 480 or 800 x 600 Dual scan 256 sim colors / 30 to 1 contrast ratio
Graphics - controller Graph - arch/data path Graphics - features	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max Memory - features	**8 MB** / 40 MB 70 ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB			

Keyboard / # of keys Keyboard slope Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) Yes (legs pop out) **TrackPoint III**™ / external keyboard support (w/ option cable or Port Replicator)
Dimensions Weight	11.7 x 8.3 x 1.9" (185 cubic inches) 6.4 pounds (2.9 kg) | 6.1 pounds (2.77 kg) | 6.2 pounds (2.79 kg)
Battery - type Battery - life Charge time - on / off	NiMH / non-intelligent 2.0 hours 1.5 hrs / 1.2 hrs
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics)
Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	None Port Replicator and Charger (with built-in battery charger and palm rest) 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot
Video in/out MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None None **16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688** **One internal speaker / .5 watt / dial volume control / internal microphone** Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port **Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)
Preinstalled software Warranty	Microsoft Windows 95 wth applications (listed on right) **1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable

WINDOWS 95 PRELOAD MODELS 4E9 and 1E9

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
- Lotus SmartSuite 96 CD-ROM

WINDOWS 95 PRELOAD MODELS GE9 and FE9

- Microsoft Windows 95 OSR2
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IGN/Netscape Internet
8. IntelliQuest Registration Mailer
9. Ergonomics
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.35 GB = DMA Mode 2 or PIO Mode 4

FEATURES OF 365 MODELS

Quick Setup Guide
LED indicator panel
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Doze, standby, suspend, safe suspend,
  and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin
  board, fax, electronic, and Internet
  (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The **Port Replicator and Charger** provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.

The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.

Port Replicator and Charger connectors:

- Serial (RS-232, 9 pin)
- Parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Diskette drive (26 pin)
- Game with MIDI support (15 pin)
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- DC input connector
- Spare battery connector (to charge 2nd battery)

Options for ThinkPad 365XD:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 810 MB EIDE HDD 13 ms	42H4012
- 1.08 GB EIDE HDD 13 ms	69H7956
- 1.4 GB EIDE HDD 3L 12.5 mm	82H8161
- 2.1 GB HDD 13 ms	82H8175
- Port Replicator and Charger	75H7529
- NiMH Battery Pack	38H6304
- 35 watt AC Adapter (2 pin barrel)	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 x CD-ROM	83H6726
- 2.1 GB HDD 13 ms 4000 rpm	82H8175

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver

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IBM ThinkPad 370C (non-US) - withdrawn

IBM® ThinkPad®:	✄ **370C** TFT color		**ThinkPad 370C is positioned between the ThinkPad 360 and ThinkPad 755 family**	

		Advantages over ThinkPad 360CE	
Processor type	**IntelDX4**	➪ **DX4 75/25 MHz**	(vs DX2 50/25)
Processor speed	**75/25 MHz** / 3.3 volt	➪ **10.4" color TFT**	(vs 8.4" color TFT)
Memory cache	16 KB internal (no L2 cache)	➪ **Black Matrix TFT**	(vs not Black Matrix)
Coprocessor socket	Integrated in DX4	➪ **36 MB max mem**	(vs 20 MB max memory)
Processor / L2 upgrade	None		
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette		
Removable CD-ROM	None		

Price					ALL 370C MODELS
Type - model	9545-QPC	9545-QPD	4 MB DIMM w/ Parity	84G2152	***Liftable (pop-up) keyboard* to**
Removable disk - size	**340 MB** ❑ ○	**540 MB** ❑ ○	8 MB DIMM w/ Parity	84G6539	**access and remove diskette**
Hard drive - speed	14 ms	14 ms	16 MB DIMM w/ Parity	84G2153	**drive, disk, battery, and**
Available date	May 1995	May 1995	4 MB IC DRAM 70 ns Parity	92G7232	**memory**
Withdrawn date	May 1996	May 1996	8 MB IC DRAM 70 ns Parity	92G7233	
			16 MB IC DRAM 70 ns Parity	92G7234	
Display - type	**VGA color** / 640 x 480		4 MB IC DRAM 70 ns non-Parity	92G7236	The removed diskette drive can be used
Display - colors	256 simultaneous colors		8 MB IC DRAM 70 ns non-Parity	92G7237	externally via the optional 'FDD External
Display - techology	**Black Matrix TFT** - active matrix		16 MB IC DRAM 70 ns non-Parity	92G7424	Kit' (includes cable and enclosure) to the
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio / 180 degree tilt				Port Replicator Model I and II and Dock I and II.

Graphics - controller	WD90C24A Rev B with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT

Diskette drive can be removed
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV
   and VCR playback)
④ to insert 2.88 MB diskette
⑤ to add other third party options

Memory - std / max	4 MB / 36 MB 70 ns / non-parity / 5 volt	Memory upgraded via
Mem - sockets empty	1 socket 2, 4, 8, 16 MB ICs or 4, 8, 16 MB DIMMs that	① 1 open socket for IC mem- ory card for 20 MB max or
Mem - options available	work on optional Memory Module Adapter	② DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter

Keyboard / # of keys	Full size alp/num / 85 keys
Fn key functions	8 (in any appl)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint II**™
Ext keyboard support	Yes (with optional cable)

Fn key functions:
- Fuel guage (battery)
- Standby mode
- Suspend mode
- Audio beep on
- Audio beep off
- LCD or CRT or both
- Power mode switching
- Hibernation mode

PREINSTALLED APPLICATIONS

Dimensions	11.7 x 8.3 x 2.0"
Cubic inches	194 inches
Color	Black
Weight (with battery)	6.3 pounds

- IBM PC DOS 7.0
- Windows 3.11
- IBM PC Card Director for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide

Battery - type	Nickel hydride (NiMH) / intelligent
Batt - life (per battery)	2.9 to 8 hours
Charge time - on / off	2 hrs / 1.5 hr

- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail, for the IBM Global®
   network,
2. Lotus Organizer 1.12
3. Lotus ScreenCam 1.0,

Architecture	AT bus (ISA)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)

4. Official Airline Guide Flight Disk® 1.0
5. Triton CoSession™ Host,
6. PRODIGY®,
7. SofNet FaxWorks™ 3.0
8. Farallon® Replica™
9. AlphaNet™ FollowFax™
10. Sedona REPRINT™
11. COMPEL™ Personal Edition
12. Video for Windows™ 1.1 Runtime

Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount
Audio support	Audio beep only
Security	Power-on password / Hard disk password / Supervisor Password / Hardware security loop (secures unit and prevents opening keyboard) / PCMCIA card lock / Optional Security Base

Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:
Warranty	1 year - ThinkPad EasyServ only
Warranty options	Onsite via special bid only

The ThinkPad 370 family has the same
physical design as the ThinkPad 360, 750, and
755 family.
PC Card Director™ (EasyPlaying) is preinstalled
and on the utility diskette for DOS, Windows and
OS/2. It provides:
① automatic config of many PCMCIA cards;
② visual/audible confirmation of insertion/
   removal of cards;
③ ability to automatically launch an appl (e.g.
   async emulation) when card inserted;
④ status and info on PCMCIA cards installed.

Easy-Setup is entered by holding F1 when
turning on. Easy-Setup, BIOS, and diagnostics
are located in flash memory.

ThinkPad 370C supported batteries:
- 750 NiMH battery   66G2846
- 750 Quick Charger   66G2843

Compatible in all 360 family, 370 family, 750 family, and 755 family:		
- Disks:	170 MB IDE	66G2847
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 370C:
- TV Tuner	66G3689
- CDPD Mobile module	71G2560
- Car Battery Adapter	49G2167
- FDD External Attachment Kit	66G3618

IC DRAM memory from ThinkPad 700, 720,
750, and 755 will work but without parity

FEATURES OF 370C FAMILY

3 power saving modes: standby, suspend,
and hibernation
Personalized nameplate in molded indentation
External VGA is ISO capable (75 Hz)
Upgradeable disks: 170 MB, 250 MB, 340MB,
540 MB, 810 MB, 1.2 GB (all 2.5 inch)
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant

HELPWARE

International Warranty Service
24 hour / 7 day telephone, bulletin
board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-565-3344 in Canada, courier service picks up
ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is
overnight, 3 business day average turnaround).
❑ = Upgradeable; ○ = Removable; ✄ = withdrawn from marketing

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(370) Compiled by Roger Dodson, IBM. June 1996

IBM® ThinkPad®:	✂ **380** 12.1" SVGA DSTN	
Processor type	**Pentium® 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	None standard / 8 x CD-ROM internal option available (not customer install)	
Type - model (code)	**2635-10U**	**All-in-one integration means the disk,**
Preload (see side)	**Windows 95 OSR2**	**diskette drive, and CD-ROM are all within**
Avail / withdrawn date	May 1997 / January 1998	**the covers of the notebook;**
Pentium speed	**150/60 MHz**	**keyboard does not lift up**
Disk - size / ms	**1.08 GB** / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	
Display - size and type	**12.1 inch DSTN color**	
Display - techology	**SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 simultaneous colors / 30 to 1 contrast	
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	

		WINDOWS 95 PRELOAD
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	- Microsoft Windows 95 OSR2 (FAT16)
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	- Online User's Guide
Pointing / palm rest	TrackPoint III™ / no drag lock keys	- ThinkPad Features Program
		- SystemSoft CardWorks™
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	- Diskette Factory and Utilities
Weight	6.6 pounds (2.96 kg)	1. Triton CoSession™ Host
		2. NetFinity for Windows 95
Battery - type / life	NiMH / non-intelligent / 2.2 hrs	3. Puma TranXit™
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs	4. IntelliLink Connect
		5. IBM Anti-Virus
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338	6. IGN/Netscape Navigator browser 7. Media Player 8. IntelliQuest Registration Mailer
Docking Station	None	9. CompuServe WinCIM
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator	10. Lotus Organizer 11. Ergonomics 12. Marketing Demo
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	- Lotus SmartSuite CD-ROM - Recovery CD-ROM with boot diskette
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	- Windows 95 CD-ROM (no installation)
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot	

Video in/out	None	Fn + F2 = Battery guage
Data/fax modem	None	Fn + F3 = Standby
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex	Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	Fn + F11 = Power mgmt
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**	Fn + F12 = Hibernation
Security	Power-on password / Hard disk password / security keyhole	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	Easy-Setup is entered by holding F1 when
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	turning on.
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

1.08 GB = DMA Mode 2 or PIO Mode 4
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4
3.2 GB = Ultra DMA/33 or PIO Mode 4
5.1 GB = Ultra DMA/33 or PIO Mode 4

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 380:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES OF 380 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

IBM ThinkPad 380D - withdrawn

IBM® ThinkPad®:	✂ **380D** 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentiumª 150/60 MHz or 150/60 MHz with MMX™ technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side None since diskette internal **5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model (code) Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	**2635-2AU** **Windows 95 OSR2** May 1997 / January 1998 150/60 MHz **1.35 GB** / 13 ms / PIO Mode 4 EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	**2635-3AU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz with MMX technology** **2.1 GB** / 13 ms / PIO Mode 4	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Display - size and type Display - techology	**12.1 inch DSTN color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**12.1 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		

<table>
<tr><td>Keyboard / # of keys
External keyboard
Pointing / palm rest</td><td>Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard support with option cable 06G8619 or Port Replicator
TrackPoint III™ / no drag lock keys</td><td rowspan="2">

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
1. Triton CoSession™ Host
2. NetFinity for Windows 95
3. Puma TranXit™
4. IntelliLink Connect
5. IBM Anti-Virus
6. IGN/Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
9. CompuServe WinCIM
10. Lotus Organizer
11. Ergonomics
12. Marketing Demo
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)
</td></tr>
<tr><td>Dimensions
Weight</td><td>11.8 x 9.2 x 2.4" (260 cubic inches)
7.1 pounds (3.2 kg) | 6.9 pounds (3.1 kg)</td></tr>
<tr><td>Battery - type / life
Charge time - on / off</td><td>NiMH / non-intelligent / 2.0 hrs | Li-Ion / non-intelligent / 2.6 hrs
3.5 to 9 hrs / 2.5 to 3.5 hrs</td><td rowspan="6">

Fn + F2   = Battery guage
Fn + F3   = Standby
Fn + F4   = Suspend
Fn + F7   = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Easy-Setup is entered by holding F1 when turning on.

1.08 GB = DMA Mode 2 or PIO Mode 4
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4
3.2 GB = Ultra DMA/33 or PIO Mode 4
5.1 GB = Ultra DMA/33 or PIO Mode 4
</td></tr>
<tr><td>Architecture

Docking Station
Port replicator

PCMCIA™ slots

Serial / parallel ports
Other features</td><td>PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator)
ISA (audio, diskette, serial, parallel, infrared)
Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
None
① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
③ ThinkPad 380/385 Port Replicator
2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** /
PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot</td></tr>
<tr><td>Video in/out
Data/fax modem
Audio support

Audio in/out jacks
Infrared ports</td><td>None
None
16 bit audio chip / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236
One internal speaker / .5 watt / dial volume control / internal mic / full duplex
Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</td></tr>
<tr><td>Security</td><td>Power-on password / Hard disk password / security keyhole</td></tr>
<tr><td>Preinstalled software
Warranty
Service options</td><td>Microsoft Windows 95 OSR2 wth applications (listed on right)
1 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in
On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years</td></tr>
</table>

| The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge | Options for ThinkPad 380:

- **8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268**
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 380/385 Port Replicator   84G1316
- ThinkPad Enhanced Port Replicator 11J8997
- Li-Ion Battery Pack   73H9793
- 35 watt AC Adapter (barrel, slim)   76H0139
- 8 x CD-ROM   73H9795
- 2.1 GB HDD 13 ms   73H9797
- 3.2 GB Disk 13 ms   02K0487
- 5.1 GB Disk 12 ms   02K0506
- 33.6 Kbps Modem with XJACK   55H6759
- 56K PC Card Modem Kit   04K0052 | **FEATURES OF 380 MODELS**

Quick Setup Guide
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Personalization screen at startup
International Warranty Service
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Online Housecall (remote diagnostics) |

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IBM® ThinkPad®:	**380E** 12.1" SVGA FRSTN	
Processor type	**Pentium® MMX 150/60 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / on right side	
External FDD port	None since diskette internal	
CD-ROM	None standard / internal 8 x CD-ROM option available (not customer install)	
Type - model (code)	**2635-40U**	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	September 1997 / July 1997	
Disk - size / ms	**2.1 GB** / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	
Display - size and type	**12.1 inch FRSTN color**	
Display - techology	**SVGA** / 640 x 480 or 800 x 600	
	Dual scan / Fast Response Super Twisted Nematic (FRSTN) / 150 ms / 70 nits	
	65,536 simultaneous colors / 35 to 1 contrast ratio	
Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B	
	1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint III™ / no drag lock keys	
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	
Weight	6.7 pounds (3.0 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs	
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs	
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator)	
	ISA (audio, diskette, serial, parallel, infrared)	
	Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338	
Docking Station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,	
	③ ThinkPad Enhanced Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** /	
	PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B	
	One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**	
Security	Power-on password / Hard disk password / security keyhole / personalization	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	

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5. IBM Global Network (IGN Dialer)
6. Netscape Navigator browser
7. Media Player
8. IntelliQuest Registration Mailer
9. Ergonomics
10. PointCast (with ThinkPad channel)
11. Marketing Demo
12. Voyetra Audio Station
13. Quicken SE
- Lotus SmartSuite CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Fn + F2	= Battery guage
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3.0 GB	= DMA Mode 2 or PIO Mode 4
5.1 GB	= Ultra DMA/33 or PIO Mode 4

FEATURES OF 380 MODELS

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Personalization screen at startup
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IBM SystemXtra Program
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Online Housecall (remote diagnostics)

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
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- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
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Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel, slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8 x CD-ROM	73H9795
- 2.1 GB Disk 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

IBM® ThinkPad®

Processor type	**Pentium® MMX™ 166/66MHz**[1] / 64-bit transfer to L2 cache / 64-bit transfer to memory
Processor upgrade	None
L2 cache	**256KB** / write-through / direct mapped / 8ns / synchronous pipelined burst
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 20X-8X**[5] **speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side

All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up

Type - model	✂ **2635-5AU**	✂ **2635-6AU**	✂ **2635-7AU**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / September 1998	September 1997 / September 1998	September 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.0GB** / 13ms / PIO Mode 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removable / upgrade only by IBM or dealer		

Display - size and type	**12.1 inch FRSTN color**	**12.1 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Dual scan / FRSTN / 150ms / 70 nits	**Active Matrix TFT** / 75ms / 100 nits
	65,536 sim colors / 35 to 1 contrast	65,536 simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	1.125MB / **iDRAM™** (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**16MB** / 80MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight[2]	7.0 pounds (3.2 kg)

Battery - type / life[10]	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, Port Replicator)
	ISA (audio, diskette, serial, parallel, infrared)
	Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** /
	PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16-bit audio** / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236B
	One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps**

Security	Power-on password / Hard disk password / security keyhole / personalization

Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft CoSession™ Host
- NetFinity for Windows 95
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Media Player
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Voyetra Audio Station
- Quicken SE
- ◇ Lotus® SmartSuite CD-ROM
- ◇ Recovery CD-ROM with boot diskette
- ◇ Windows 95 CD-ROM (no installation)

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

Easy-Setup is entered by holding F1 when turning on.

1.08GB	=	DMA Mode 2 or PIO Mode 4
1.35GB	=	DMA Mode 2 or PIO Mode 4
2.1GB	=	DMA Mode 2 or PIO Mode 4
3.0GB	=	DMA Mode 2 or PIO Mode 4
5.1GB	=	Ultra DMA/33 or PIO Mode 4

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin), parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	**92G7340**
- 16MB SO DIMM 3.3v NP EDO 64-bit	**92G7341**
- 16MB SO DIMM NP 64-bit (new)	**01K1124**
- 32MB SO DIMM 3.3v NP EDO 64-bit	**92G7342**
- 64MB SO DIMM 3.3v NP EDO 64-bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel; slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8X CD-ROM	73H9795
- 2.1GB Disk 13ms	73H9797
- 3.2GB Disk 13ms	02K0487
- 5.1GB Disk 12ms	02K0506
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

FEATURES

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
Personalization screen at startup
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)
✂ Withdrawn from marketing

IBM® **ThinkPad**®

Processor type	**Intel**® **Pentium**® **MMX**™ **233/66 or 266/66MHz**[1] / 64-bit to L2 cache and memory			*All-in-one integration means the*
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module			*disk, diskette drive, and CD-ROM*
L2 cache	**512KB** / write-through / direct mapped / 8.5ns data; 15ns tag / sync pipelined burst			*are all within the covers of the*
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side			*notebook; removable disk;*
External FDD port	None since diskette internal			*keyboard does not lift up*
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side			

Type - model	**2635-8AU**	**2635-BAU** (Auth Assb Prog) **2635-9AU**	**2635-AAU**
Processor	**233/66MHz**	**233/66MHz** **233/66MHz**	**266/66MHz**
Preload (see side)	**Windows 95 OSR2**	**None** **Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	March 1998 / Sept 1998 March 1998 / Sept 1998	March 1998 / Sept 1998
Disk - size / ms	**3.2GB**[4] / 13ms / PIO Mode 4	**Blank** **4.0GB** / 13ms / PIO 4	**5.1GB** / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer		

Display - size and type	**12.1 inch HPA color**	**12.1 inch TFT color**
Display - techology	**SVGA** / 640x480 or 800x600	**SVGA** / 640x480 or 800x600
	Dual scan / HPA / 150ms / 100 nits	**Active Matrix TFT** / 75ms / 100 nits
	16 mil sim colors / 50 to 1 contrast	**16.7 million** simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic**™ **MagicGraph128XD**™ (NM2160B) /128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint® III / no drag lock keys

Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2 kg)

Battery - type / life[10]	Li-Ion / non-intelligent / 8AU: 3.5 hrs; 9AU: 4.5 hrs; AAU: 4.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
	Intel Triton **430TX** PCIset / Intel **PIIX4** (EIDE, USB, PCI to ISA bridge)
	Texas Instruments® **TI1250A** PCMCIA controller
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32-bit PCI** / Zoomed video
	PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password /
	security keyhole / personalization screen at startup

Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

OPTIONS

The **ThinkPad Enhanced Port Replicator**
provide cable management, additional I/O ports,
and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad,
  PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not
  run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 4.0GB disk, 13ms	05K8871
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular cpble	02K4196
- 10/100 Ethernet CardBus PC Card	08L3147

Easy-Setup is entered by holding F1 when
turning on.

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe),
 and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin
 board, fax, electronic, and Internet
 (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

IBM ThinkPad 385D (Retail models) - withdrawn

IBM® ThinkPad®:	>< **385D** 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM	**Pentium® 150/60 MHz or 150/60 MHz with MMX**™ **technology**/ 64 bit transfer to L2 cache / 64 bit transfer to memory None **256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side None since diskette internal **5.25" CD-ROM / 8 x speed /** multi-session / XA / ATAPI / not bootable / not removable / on right side		

Type - model Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	**2635-2EU** **Windows 95 OSR2** May 1997 / January 1998 150/60 MHz **1.35 GB** / 13 ms / PIO Mode 4	**2635-3EU** **Windows 95 OSR2** May 1997 / January 1998 **150/60 MHz with MMX technology** **2.1 GB** / 13 ms / PIO Mode 4	**All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up**
	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		

Display - size and type Display - techology	**12.1 inch DSTN color** **SVGA** / 640 x 480 or 800 x 600 **Dual scan** 65,536 sim colors / 30 to 1 contrast	**12.1 inch TFT color** **SVGA** / 640 x 480 or 800 x 600 **Black Matrix TFT** - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	

Graphics - controller Graph - arch/data path Graphics - features	**NeoMagic**™ **MagicGraph128ZV**™ (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors Simultaneous LCD and CRT / 150 degree tilt		

Memory - std / max Memory - features	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		

Keyboard / # of keys External keyboard Pointing / palm rest	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator External keyboard support with option cable 06G8619 or Port Replicator TrackPoint III™ / no drag lock keys
Dimensions Weight	11.8 x 9.2 x 2.4" (260 cubic inches) 7.1 pounds (3.2 kg)

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Lotus SmartSuite
  - WordPro Word Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- IntelliLink Connect
- TranXit
- Online User's Guide
- SystemSoft Card Works
- Password Protected Marketing Demo
- CD-ROMs included in the Shipping Carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

Weight (cont)	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)
Battery - type / life Charge time - on / off	NiMH / non-intelligent / 2.0 hrs 3.5 to 9 hrs / 2.5 to 3.5 hrs	Li-Ion / non-intelligent / 2.6 hrs

Architecture Docking Station Port replicator PCMCIA™ slots Serial / parallel ports Other features	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338 None ① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator ③ ThinkPad 380/385 Port Replicator 2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot** / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI) One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (35 watts) / Selectable boot

Video in/out MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None None **16 bit audio chip /** 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port **Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**
Security	Power-on password / Hard disk password / security keyhole
Preinstalled software Warranty	Microsoft Windows 95 OSR2 wth applications (listed on right) **1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad 385D, PC Cards, and Port Replicator

Port Replicator connectors:
- USB
- Serial (9 pin); parallel (EPP, ECP, 25 pin)
- External display (15 pin)
- Keyboard
- Mouse
- Audio in (3.5 mm)
- Audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32 bit)
- 8/16 bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

Options for ThinkPad 385D:

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
-ThinkPad Enhanced Port Replicator	11J8997
- Li-Ion Battery Pack	73H9793
- 35 watt AC Adapter (slim, barrel)	76H0139
- 8 x CD-ROM	73H9795
- 2.1 GB HDD 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Easy-Setup is entered by holding F1 when turning on.

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES OF 385D MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™**:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
(385D) Compiled by Roger Dodson, IBM. December 1997

IBM ThinkPad 385ED (Retail models) - withdrawn

IBM® ThinkPad®:	**385ED** 12.1" SVGA Fast Response STN or Active Matrix / 20x max variable speed CD-ROM	
Processor type	**Pentium® MMX™ 166/66 MHz** / 64 bit transfer to L2 cache / 64 bit transfer to memory	**All-in-one integration means the**
Processor upgrade	None	**disk, diskette drive, and CD-ROM**
L2 cache	**256 KB** / write-through / direct mapped / 8 ns / synchronous pipelined burst	**are all within the covers of the**
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side	**notebook;**
External FDD port	None since diskette internal	**keyboard does not lift up**
CD-ROM	**5.25" CD-ROM / 20x max variable speed /** CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side	

Type - model (code)	**2635-5EU**	**2635-6EU**
UPC code	**087944350163**	**087944343660**
Preload (see side)	**Windows 95 OSR2**	**Windows 95 OSR2**
Avail / withdrawn date	September 1997 / July 1997	September 1997 / July 1997
Disk - size / ms	**2.1 GB** / 13 ms / PIO Mode 4	**3.0 GB** / 13 ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removable / upgrade only by IBM or dealer	

Display - size and type	**12.1 inch Fast Response color**	**12.1 inch Active color**
Display - techology	**SVGA** / 640 x 480 or 800 x 600	**SVGA** / 640 x 480 or 800 x 600
	Dual scan / FRSTN / 150 ms / 70 nits	**Active Matrix TFT** / 75 ms / 100 nits
	65,536 sim colors / 35 to 1 contrast	65,536 simultaneous colors / 100 to 1 contrast ratio ratio

Graphics - controller	**NeoMagic™ MagicGraph128ZV™** (NM2093) /128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**16 MB** / 80 MB / non-parity / 3.3 volt / EDO
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)
Weight	7.1 pounds (3.2 kg)

Battery - type / life	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	

Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator)
	ISA (audio, diskette, serial, parallel, infrared)
	Intel® Mobile Triton 82430 PCIset / Intel 82371MX PIIX / NS PC87338
Docking Station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,
	③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **/ Zoomed Video support in lower slot /**
	PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16 bit audio chip /** 20 voice MIDI FM Synthesis / CS4236B
	One internal speaker / .5 watt / dial volume control / int mic/ full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	**Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps**

Security	Power-on password / Hard disk password / security keyhole / personalization

Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional depot repair service) or carry-in

OPTIONS

- 8 MB SO DIMM 3.3v NP EDO 64 bit	**92G7340**
- 16 MB SO DIMM 3.3v NP EDO 64 bit	**92G7341**
- 16 MB SO DIMM NP EDO 64 bit (new)	**01K1124**
- 32 MB SO DIMM 3.3v NP EDO 64 bit	**92G7342**
- 64 MB SO DIMM 3.3v NP EDO 64 bit	**76H0268**
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 35 watt AC Adapter (barrel; slim)	76H0139
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 2.1 GB Disk 13 ms	73H9797
- 3.2 GB Disk 13 ms	02K0487
- 5.1 GB Disk 12 ms	02K0506
- 33.6 Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

Fn + F2	= Battery guage
Fn + F3	= Standby
Fn + F4	= Suspend
Fn + F7	= LCD/CRT/Simultaneous
Fn + F11	= Power mgmt
Fn + F12	= Hibernation

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Lotus SmartSuite 97
  - WordPro Word Processor
  - 1-2-3 Spreadsheet
  - Freelance Graphics
  - Approach Database
  - Organizer Scheduler
  - ScreenCam
- Ergonomics
- Diskette factory and utilities
- ThinkPad customization icon
- IntelliQuest Registration Mailer
- Voyetra Audio Station
- IBM Global Network (IGN)
- NetScape Navigator Browser
- AOL, AT&T WorldNet, CompuServe
- Media Player
  - Active Movie (MPEG-1, AVI)
  - Video for Windows
  - CD Audio Player
  - MIDI Sequencer
- Quicken SE
- Expensable
- Wall Street Money SE
- National Golf Course Directory
- Rand McNally's Trip Maker
- IBM Anti-Virus
- IBM Online Housecall
- IBM Update Connector
- TranXit™
- Online User's Guide
- SystemSoft Card Works
- PointCast
- Password Protected Marketing Demo
- CD-ROMs included in the shipping carton
  - Preload Recovery CD w/boot diskette
  - Windows 95 CD (no installation)
  - Picture Perfect Golf

FEATURES OF 385 MODELS

Quick Setup Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
US EPA Energy Star compliant
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad® 385XD (Retail models) - withdrawn

IBM® ThinkPad®

Processor type	**Pentium® 233/66**[1] **with MMX™ technology, 266/66MHz with MMX™ technology,** or **Pentium II 266/66MHz**
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed /** CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

	2635-8EU	2635-9EU	2635-DEU	*All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up*
Type - model	**2635-8EU**	**2635-9EU**	**2635-DEU**	
UPC code	**0-87944-40513-9**	**0-87944-40514-6**	**0-87944-41973-0**	
Processor	**Pentium 233/66MHz**	**Pentium 266/66MHz**	*Pentium II 266/66MHz*	
Avail / withdrawn date	March 1998 / Sept 1998	March 1998 / Sept 1998	May 1998 / Sept 1998	
Disk - size / ms	**2.1GB**[4] / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO Mode 4	**3.2GB** / 13ms / PIO 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer			

Display - size and type	**12.1 inch HPA** (High Performance Addressing) **color**	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 150ms / 100 nits / **16.7 million simultaneous colors** / 50 to 1 contrast	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits / **16.7 million simultaneous colors** / 100 to 1 contrast

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing / palm rest	TrackPoint III™ / no drag lock keys
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs
Battery - type / life[10]	Li-Ion / non-intelligent / 3.0 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs
Architecture	Intel® Triton **430TX, PIIX4** for Pentium systems / **Intel 440BX, PIIX4** for Pent II **PIIX4** (EIDE, USB, PCI to ISA bridge)TI® **TI1250A** PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)
Docking station	None
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95
USB / serial / parallel	**One USB /** one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported
Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	**56KB PC Card Modem / Cellular Capable** / x2 / XJACK connecor (02K4196)
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup
Preinstalled software	Microsoft® Windows® 95 OSR2.1 wth applications (listed on right)
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD[16]

- Microsoft Windows 95 OSR2.1 (FAT16)
- Internet Explorer 4.0
- Online User's Guide
- ThinkPad Configuration Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Artisoft ConfigSafe
- Update Connector
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network (IGN Dialer)
- Netscape Navigator browser
- Media Player
- IntelliQuest Registration Mailer
- Ergonomics
- PointCast (with ThinkPad channel)
- Marketing Demo
- Expensable
- ThinkPad on the Net
- Personalization Editor
- ThinkPad Customization
- Lotus SmartSuite 97
- Voyetra Audio Station
- Rand McNally's Trip Maker
- Quicken 98 (subject to change)
- ◇ EA Sports PGA Tour Golf CD-ROM
- ◇ Recovery CD-ROM with boot diskette
- ◇ Windows 95 CD-ROM (no installation)

3.2GB = DMA Mode 2 or PIO Mode 4
4.0GB = DMA Mode 2 or PIO Mode 4
5.1GB = Ultra DMA/33 or PIO Mode 4
All disks are SMART compliant

Fn + F2	=	Battery guage
Fn + F3	=	Standby
Fn + F4	=	Suspend
Fn + F7	=	LCD/CRT/Simultaneous
Fn + F11	=	Power mgmt
Fn + F12	=	Hibernation

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30], **bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

The **ThinkPad Enhanced Port Replicator** provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when turning on.

IBM® **ThinkPad**®

Processor type	**Pentium**® **233/66MHz**[1] with MMX technology
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module
L2 cache	**512KB** / synchronous pipelined burst (66MHz)
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side
External FDD port	None since diskette internal
CD-ROM	**5.25" CD-ROM / 24X-10X**[5] **speed** / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side

Type - model	**2635-LEU**	*All-in-one integration means the disk, diskette*
UPC code	**0-87944-452188**	*drive, and CD-ROM are all within the covers of*
Avail / withdrawn date	July 1998 / September 1998	*the notebook; removable disk;*
Disk - size / ms	**3.2GB**[4] / 13ms (read); 14ms (write) / PIO 4 / SMART	*keyboard does not lift up*
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	

Display - size and type	**12.1 inch TFT color** / Active Matrix
Display - techology	**SVGA** / 640x480 or 800x600 / 75ms / 100 nits
	16.7 million simultaneous colors

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B
	2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt

Memory - std / max	**32MB** / 96MB / non-parity / 3.3 volt / EDO / 60ns	**WINDOWS 98 PRELOAD**[16]
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB	- Microsoft Windows 98 (FAT16)
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	• Internet Explorer 4.01
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	• Online User's Guide
Pointing / palm rest	TrackPoint® III / no drag lock keys	• ThinkPad Configuration Program
Dimensions / weight[2]	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk	• Software Select Utility
Battery - type / life[10]	Li-Ion / non-intelligent / 3.5 hrs	• Diskette Factory and Utilities
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	• Artisoft ConfigSafe
Architecture	Intel® **Triton 430TX**	• IBM Update Connector
	PIIX4 (EIDE, USB, PCI to ISA bridge) / TI® **TI1250A** PCMCIA controller	• Puma IntelliSync 97
	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB)	• Norton AntiVirus (OEM Version)
	ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)	• IBM Global Network™ (IGN Dialer)
Docking station	None	• Netscape Navigator browser
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator,	• RingZero Fax Central
	③ ThinkPad 380/385 Port Replicator	• IntelliQuest Registration Mailer
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III **CardBus 32-bit PCI** / Zoomed Video	• Ergonomics
	PCMCIA 2.1 compatible / PC Card Standard 95	• Intuit Expensable
USB / serial / parallel	**One USB** / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	• ThinkPad on the Net
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported	• Personalization Editor
Video in/out	None	• Lotus SmartSuite 97
MPEG decoder	None (software support for MPEG-1 in Windows 98)	• Rand McNally's Trip Maker
Data/fax modem	**56KB**[9] **PC Card Modem / Cellular Capable** / x2 / XJACK connector (02K4196)	• Quicken 98
Audio	**16-bit** / CS4237B / SRS 3D audio / FM synthesis	◇ EA Sports PGA Tour Golf CD-ROM
Speakers	Two front **stereo speakers** (.5 watt) / one **subwoofer** above keyboard (1 watt)	◇ Recovery CD-ROM with boot diskette
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps	

Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup	

Preinstalled software	Microsoft® Windows® 98 with applications (listed on right)	Fn + F2 = Battery guage
Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in	Fn + F3 = Standby
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 3 or 5 years	Fn + F4 = Suspend
		Fn + F7 = LCD/CRT/Simultaneous
		Fn + F11 = Power mgmt
		Fn + F12 = Hibernation

The **ThinkPad Enhanced Port Replicator**
provide cable management, additional I/O ports,
and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad,
  PC Cards, and Port Replicator

Port Replicator connectors:
- USB, serial (9 pin), parallel (25 pin)
- External display (15 pin)
- Keyboard and mouse
- Audio in (3.5 mm) and audio out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive conntr - not on system
- Power connector (requires AC power; can not
  run on battery)

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)
- Texas Instruments PCI1131 controller
- Requires no PCI-to-PCI bridge

OPTIONS

- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 380/385 Port Replicator	84G1316
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 380/385 Li-Ion Battery (old)	73H9793
- ThinkPad 380/385 Li-Ion Battery	02K6507
- External Battery Charger	02K6499
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- 33.6Kbps Modem with XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

Easy-Setup is entered by holding F1 when
turning on.

FEATURES

DMI 2.0 compliant (via software upgrade)
PC 97 compliant
Wired for Management 1.1a
Setup Guide, User's Guide, Options by
  IBM catalog, Windows 95 book
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe),
  and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
24 hour / 7 day telephone[30]**, bulletin
  board, fax, electronic, and Internet
  (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in
most North American locations, IBM repairs and mails back (no shipping charges, most shipping
is overnight, 3 business day average turnaround)

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary

IBM® ThinkPad®:	✂ **560** 11.3" Dual Scan SVGA color	✂ **560** 12.1" TFT SVGA color			**ThinkPad 560 key features:**
Processor type	**Pentium® 100/66, 120/60, 133/66 MHz** / 64 bit to transfers to memory				⇨ **Next generation ultraportable notebook**
Processor upgrade	None				⇨ **Slim: 1.2 inches**
L2 cache	None				⇨ **Lightweight: 4.1 pounds**
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable				⇨ **Full size keyboard**
External FDD port	External FDD port (works with standard external diskette; no kit reqd)				⇨ **Pentium 100/66 to 133/66 MHz**
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)				⇨ **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
					⇨ **PCI bus**
					⇨ **8 MB EDO memory**

Price		Pallet of 24		Pallet of 24			Pallet of 24
Type - model	2640-50A	2640-50C	2640-E0A	2640-E0C	2640-F0E	2640-F0D	2640-F0G
Preload (see side)	Windows 95	Blank	Windows 95	Blank	Windows 95	OS/2 Warp Connect	Blank
Avail / withdrawn date	May 96 / June 97 and Apr 97		May 1996 / January 1997		Jul 96 / Apr 97	July 1996 / January 1997	
Pentium speed	**100/66 MHz**		**120/60 MHz**		**133/66 MHz**		
Disk - size / ms	**810 MB** / 13 ms		**810 MB** / 13 ms		**1.08 GB** / 13 ms		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk						

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns	**WINDOWS 95 PRELOAD**
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / **DCI, DirectDraw, EnDIVE support**	- Microsoft Windows 95
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt	- Online User's Guide
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors	- ThinkPad Features Program
Memory - std / max	8 MB / 40 MB (72 MB with ThinkPad Proven option)	- PC Card Director 4.0
Memory - features	70 ns / non-parity / 3.3 volt / EDO	- Diskette Factory
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB	1. Triton CoSession™ Host
Keyboard / # of keys	**Full size** alp/num / 85 (6 Fn key functions)	2. Lotus Organizer
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope	3. IntelliLink Connect
Pointing device	TrackPoint III™ / no drag lock keys	4. IBM Internet Connection Services with
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	Netscape Navigator web browser
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)	5. Puma TranXit™
Weight	4.12 pounds (1.87 kg)	4.10 pounds (1.86 kg)	6. Compuserv for Windows
Battery - type	Lithium Ion / intelligent	7. NetFinity for Windows 95
Battery - life (1 batt)	3 hours	- Lotus SmartSuite 96 CD-ROM
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	

(continuing left column)

Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	**OS/2 WARP CONNECT PRELOAD**
Docking Station	None	- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
Port replicator	ThinkPad 560 Port Replicator	- Online User's Guide
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	- ThinkPad Features Program
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	- PC Card Director 4.0
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector / APM-aware BIOS / Selectable boot IBM BIOS	- Diskette Factory
Video in/out	None	1. Lotus Organizer
MPEG decoder	None	2. Puma TranXit™
DSP function	None	3. IntelliLink Connect
Data/fax modem	None	4. NetFinity for OS/2
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Int stereo speakers / .5 watt / rotary volume control / internal microphone	5. Triton CoSession™ Host; - Lotus SmartSuite 4.0 (entitled to SSuite 96)
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speaker/mic	
Telephone	None	**BLANK PRELOAD**
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**	- License for SmartSuite
Security	Power-on password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup	The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope.
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

Compatible in ThinkPad 560 family:

- Disks: (365/760 IDE disks not supported)
  1.08 GB HDD II EIDE 13 ms   46H4208
- 2.1 GB HDD 14 ms   45H8783
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 560 Li-Ion Battery Pack 46H4206
- 35 watt AC Adapter - barrel/3 prong 85G6719
- 35 watt AC Adapter (slim, 2 pin) 76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(560) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 560 (1997 models) - withdrawn

IBM® ThinkPad®:	✂ 560 11.3" Dual Scan SVGA color	✂ 560 12.1" TFT SVGA color
Processor type	**Pentium® 133/66 MHz** / 64 bit to transfers to memory	
Processor upgrade	None	
L2 cache	None	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Code name	Kinzie 3	

ThinkPad 560 key features:

- ➪ **Next generation ultraportable notebook**
- ➪ **Slim: 1.2 inches**
- ➪ **Lightweight: 4.1 pounds**
- ➪ **Full size keyboard**
- ➪ **Pentium 133/66 MHz**
- ➪ **11.3" Dual Scan SVGA or 12.1" TFT SVGA**
- ➪ **PCI bus**
- ➪ **8 MB EDO memory**

Price		
Type - model	**2640-10U**	2640-20U
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	February 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support
Gaphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors
Memory - std / max	**8 MB** / 40 MB (72 MB w/ ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB
Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint III™ / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)
Weight	4.12 pounds (1.87 kg) ¦ 4.10 pounds (1.86 kg)
Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	3 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / Selectable boot IBM BIOS
Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Internal stereo speakers / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps**
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. Compuserv for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IGN/Netscape web browser
8. Ergonomics
9. Lotus Organizer
- Lotus SmartSuite 96 CD-ROM   -

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole (Kensington)
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES OF 560 MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and
  hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
**24 hour / 7 day telephone, bulletin
  board, fax, electronic, and Internet
  (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Easy-Setup is entered by holding F1 when turning on.

Fn + F2 = Battery guage
Fn + F3 = Standby
Fn + F4 = Suspend
Fn + F7 = LCD/CRT/Simultaneous
Fn + F11 = Power mgmt
Fn + F12 = Hibernation

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

OPTIONS

- Disks: (365/760 IDE disks not supported)
    1.08 GB HDD II EIDE 13 ms   46H4208
    2.1 GB HDD 14 ms   45H8783
    4.0 GB HDD 13 ms   02K0501
- ThinkPad 560 Port Replicator   46H4209
- ThinkPad 560 Li-Ion Battery Pack 46H4206
- 35 watt AC Adapter - barrel/3 prong 85G6719
- 35 watt AC Adapter (slim, 2 pin) 76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit   92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342
- 8-20 x Portable CD-ROM   1969010
- 8-24 x Portable Stereo CD-ROM   1969011
- Other options from ThinkPad Proven partners

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

IBM® ThinkPad®:	✂ **560E**	✂ **560E**
	11.3" Dual Scan SVGA color	12.1" TFT SVGA color

Processor type	**Pentiumᵃ 150/60 MHz or 166/66 MHz / both with MMX technology** / 64 bit transfers to L2 cache and memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 8 ns / synchronous pipelined burst
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable
External FDD port	External FDD port (works with standard external diskette; no kit reqd)
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)

Price		
Type - model (code)	**2640-30U**	**2640-40U** s
Processor	**Pentium 150/60 with MMX**	**Pentium 166/66 MHz with MMX technology**
Preload (see side)	**Windows 95 OSR2**	
Avail / withdrawn date	June 1997 / January 1998	
Disk - size / ms	**2.1 GB** / 14 ms / DMA Mode 2 or PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	

Display - size and type	**11.3" Dual Scan SVGA color**	**12.1" TFT SVGA color**
Display - techology	11.3" SVGA color / 640 x 480 or 800 x 600 65,536 sim colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 2 MB fast page DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors

Memory - std / max	**16 MB** / 80 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB

Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint III™ / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)

Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches)	
Weight	4.1 pounds (1.9 kg)	4.1 pounds (1.9 kg)

Battery - type	Lithium Ion / intelligent
Battery - life (1 batt)	3 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs

Architecture	ISA (audio, diskette, serial, parallel, infrared) / NS PC87334 (FDC, IR, I/O) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III / Cirrus Logic® PD6729
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS

Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** Internal stereo speakers / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speakers/mic
Telephone	None
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4 Mbps**

Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**1 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service options	On-Site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 3 or 5 years

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. CompuServ for Windows
3. NetFinity for Windows 95
4. Puma TranXit™
5. IntelliLink Connect
6. IBM Anti-Virus
7. IBM Global Network with Netscape web browser
8. Registration Mailer
9. Lotus Organizer
10. Lotus SmartSuite 96
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

OPTIONS

Easy-Setup is entered by holding F1 when turning on.

Fn + F2	= Battery guage	
Fn + F3	= Standby	
Fn + F4	= Suspend	
Fn + F7	= LCD/CRT/Simultaneous	
Fn + F11	= Power mgmt	
Fn + F12	= Hibernation	

Hardware acceleration of 'Video for Windows'™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

- Disks: (365/760 IDE disks not supported)	
2.1 GB HDD 14 ms	45H8783
4.0 GB HDD 13 ms	02K0501
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 35 watt AC Adapter - barrel/3 prong	85G6719
- 35 watt AC Adapter (slim, 2 pin)	76H0139
- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340
- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341
- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342
- 64 MB SO DIMM 3.3v NP EDO 64 bit	76H0268
- External 4 x PCMCIA CD-ROM	1969008
- Ext 4 x PCMCIA Stereo CD-ROM	1969009
- 8-20 x Portable CD-ROM	1969010
- 8-20 x Portable Stereo CD-ROM	1969011
- PCMCIA 33.6 Kbps modem	25H6420
- PCMCIA 33.6 modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- Other options from ThinkPad Proven partners	

FEATURES OF 560E MODELS

Quick Setup Guide
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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No warranties are expressed or implied in this summary
(560E) Compiled by Roger Dodson, IBM. December 1997

IBM® ThinkPad®

Processor type	**Pentium® MMX™ 200/66 or 233/66MHz**[1] / 64-bit to L2 and memory	
Processor upgrade	None	
L2 cache	**256KB** / write-back / direct mapped / 8ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	

Price		
Type - model (code)	**2640-60U**	**2640-70U**
Processor	**Pentium MMX 200/66MHz**	**Pentium MMX 233/66MHz**
Preload (see side)	**Windows 95 OSR2.1 + IE 4.01**	**Windows 95 OSR2**
Avail / withdrawn date	March 1998 / September 1998	November 1997 / September 1998
Disk - size / ms	**2.1GB**[4] / 14ms / SMART	**4.0GB** / 13ms / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / Ultra DMA/33 or PIO Mode 4 / supports 1 int disk	

Display - size and type	**12.1" HPA SVGA color** (dual scan)	**12.1" TFT SVGA color** (active matrix)
	640x480 or 800x600	640x480 or 800x600
	262,144 simultaneous colors	262,144 simultaneous colors
Display - techology	30 to 1 contrast / 150ms / 70 nits	100 to 1 contrast ratio

Graphics - controller	**NeoMagic™ MagicGraph128XD™** (NM2160A) / 128-bit SVGA accelerator
Graph - arch/data path	2MB / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support
Graphics - features	Interpolation in X and Y axis / color space conversion
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)

Memory - std / max	**32MB** std / 96MB max
Memory - features	60ns / non-parity / 3.3 volt / EDO
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64MB

Keyboard / # of keys	**Full size** alp/num / 85 keys (6 Fn key functions)
Keyboard slope	**Large palm rest** / keyboard remains flat (no sloop) / opt P Replicator adds slope
Pointing device	TrackPoint® III / no drag lock keys
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)

Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297 mm x 222 mm x 31 mm	
Weight[2]	4.17 pounds (1.89 kg)	4.14 pounds (1.88 kg)

Battery - type / life[10]	Lithium Ion / intelligent / 3.5 hours
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs

Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) / **Intel 430TX PCIset / PIIX4** (EIDE, USB, PCI to ISA bridge) / **TI1250A**
Docking Station	None
Port replicator	ThinkPad 560 Port Replicator / ThinkPad Enhanced Port Replicator
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32-bit PCI** / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
USB port	**One USB port**
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 95)
Data/fax modem	None
Audio support	**16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio** (if use ext speakers) Internal mono speaker / .5 watt / rotary volume control / internal microphone
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / not full duplex speakers/mic
Infrared ports	**Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps**
Security	Power-on password / hard disk password / security keyhole on back / personalization screen at startup

Limited warranty[11]	**1 year** - ThinkPad EasyServ (door-to-door depot repair service) or carry-in
Service options[15]	On-Site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years

New features of 560X (compared to 560E):

- ➭ 200 or 233MHz Pentium (vs 150 or 166)
- ➭ 32MB memory standard (vs 16MB)
- ➭ 96MB maximum memory (vs 80MB)
- ➭ CardBus and Zoomed Video PC Cards
- ➭ One USB port (vs none)
- ➭ Supports Enhanced Port Replicator
- ➭ 430TX (vs 430MX)
- ➭ MagicGraph128XD (vs CYBER9382)
- ➭ 256K simultaneous colors (vs 64K)
- ➭ 56 watt AC Adapter (vs 35 watt)
- ➭ ConfigSafe and LANDesk preloaded

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- SystemSoft CardWorks™
- Diskette Factory and Utilities
- Puma TranXit™
- IBM Anti-Virus
- IBM Global Network with Netscape web browser
- Intelliquest Registration Mailer
- Artisoft ConfigSafe
- Intel® LANDesk® Client Manager
- PointCast (with ThinkPad channel)
- Ergonomics
- Lotus® SmartSuite 97
- NetFinity for Windows 95 (license only)
- ◇ Recovery CD-ROM with boot diskette
- ◇ Windows 95 CD-ROM (no installation)

Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).

Easy-Setup is entered by holding F1 when turning on.

System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.

The optional **ThinkPad 560 Port Replicator** acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:

- Release button
- Security keyhole
- Mouse
- Keyboard
- External monitor
- Parallel
- Serial (9 pin)
- External diskette drive
- Power jack

FEATURES

Wired for Management 1.1a
DMI 2.0 compliant
PC 97 compliant
Setup Guide, User's Guide, Up and Running
Plug and Play 1.0a
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
Personalized nameplate indention
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone[30]**, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support**
IBM and dealer warranty/service

ThinkPad Enhanced Port Replicator provides cable management, additional I/O ports, and CardBus PC Card slots. Features include:

- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator

Connectors:
- USB
- Serial (RS-232, 9 pin), Parallel (25 pin)
- External display, Keyboard, Mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector
- Power connector

Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- 8/16-bit PC Card support (no Zoomed Video)

OPTIONS

- 2.1GB disk, 14ms	45H8783
- 4.0GB disk, 13ms	02K0501
- 6.4GB disk, 13ms, Ultra DMA/33	02K0518
- ThinkPad 560 Port Replicator	46H4209
- ThinkPad Enhanced Port Replicator	11J8997
- ThinkPad 560 Li-Ion Battery Pack	46H4206
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340
- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341
- 16MB SO DIMM NP EDO 64-bit (new)	01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268
- 20X-8X Portable CD-ROM	1969010
- 20X-8X Portable Stereo CD-ROM	1969011
- PCMCIA 33.6Kbps modem	25H6420
- PCMCIA 33.6 modem w/ XJACK	55H6759
- 56K PC Card Modem Kit	04K0052
- 56K PC Card Modem/Cellular Capable	02K4196

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

IBM ThinkPad 701 - withdrawn

IBM® ThinkPad®:	✂ **701CS** dual scan color					✂ **701C** TFT color				
Processor 3.3 volt Processor speed	**80486DX2 50/25 MHz**		**IntelDX4 75/25 MHz**			**80486DX2 50/25 MHz**		**IntelDX4 75/25**		

		701CS / 701C strengths:

ThinkPad 701CS / 701C strengths:
- ⇨ **Full sized, folding TrackWrite keyboard**
- ⇨ **Full sized 10.4" color dual scan or TFT display**
- ⇨ **Subnotebook size and weight (4.5 pounds)**
- ⇨ **Audio, 14.4/14.4 data/fax modem, telephony**
- ⇨ **Infrared communication**
- ⇨ **TrackPoint III and removeable disk**

Coprocessor socket Memory cache Diskette Removable CD-ROM	N/A (math coprocessor std in DX2/DX4) 8 KB in DX2; 16 KB in DX4 / no L2 cache External 3.5" 1.44 MB / hot-pluggable Not supported	The 701 has a External Bus Connector to attach either standard MultiPort II or (with optional Adapter Kit) Dock II

	US2	US5	2SU	5SU	7SU	UT2	UT5	2TU	5TU	7TU
Price (retail USD) Type - model **all 2630**	$2,499 US2	2,749 US5	1,499♣ 2SU	1,649♣ 5SU	1,799♣ 7SU	$2,999 UT2	3,299 UT5	1,999♣ 2TU	2,149♣ 5TU	2,299♣ 7TU
Removable disk - size	**360 MB**	540	360	540	720	360	540	360	540	720
Hard disk - spd ms	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏	13 ❏
Available date	Mar 95	Mar 95	Mar95	Mar95	Sep95	Mar95	Mar95	Mar95	Mar95	Sep95

Integrated chipsets provide:
① **Data modem function**
  - V.22bis (2400 bps)
  - V.32 (9600 bps)
  - V.32bis (14.4 Kbps)
② **Fax modem function**
  - Class 1 fax send/receive (14.4 Kbps)
③ **Audio function**
  - 16 bit audio / 44.1 kHz sampling rate
  - Stereo waveform record and playback
  - 18 voice MIDI wave table synthesizer
  - SoundBlaster™ support
  - Text to speech (via Monologue)
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone

	701CS	701C
Display - type Display - colors Display - techology Display - diagonal size	**VGA color** / 640 x 480 **65,536 simultaneous colors** **Dual scan** **10.4 inch** / 20 to 1 contrast ratio	**VGA color** / 640 x 480 **65,536 simultaneous colors** **TFT - active matrix** **10.4 inch** / 100 to 1 contrast ratio
Graphics - controller Graphics - vendor Graph - arch/data path	CT-65545 with 1 MB DRAM Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz) VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	

Memory - std / max	**4** / 36 MB	**8** / 40 MB	**4** / 36 MB	**8** / 40 MB
Memory - type Mem - sockets empty Mem-options available	70 ns / non-parity / 3.3 volt 1 socket 4, 8, 16, 32 MB SO-DIMMs			

The two wings (ends) of the TrackWrite™ keyboard slide into position automatically every time the lid is opened or closed

Fn key functions:
- Configuration Utility
- Battery Status
- Standby/Suspend
- Hibernation
- Speaker off (audio mute)
- Hard disk off
- LCD or CRT or both
- Reverse appearance
- Increase/decrease contrast
- Brighten/dim LCD
- Speaker volume up/down

Keyboard / # of keys Keyboard slope Mouse/pointing Ext keyboard support	**Full size alp/num / 85 key** (15 Fn key functions) Yes (use MultiPort II stand that flips out) **TrackPoint III™ on TrackWrite keyboard** Yes (no cable required)
Dimensions Color Weight (with battery)	9.7 x 7.9 x 1.7" (130 cubic inches) Black With keyboard open it 4.5 pounds expands from 9.7" to 11.5"
Battery - type Battery - life Charge time - on / off	Super NiCad or NiMH (DX4 mdls built after 9/95) 2.5 to 7 hours **or optional NiMH** 1.5 hrs / battery will not charge if unit is off
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	AT bus (ISA) Dock II (requires optional Dock II Adapter Kit) None (use standard MultiPort II) **2 Type I or 2 Type II or 1 Type III** One 9 pin; 16550A / ECP/EPP parallel 36 pin (IEEE 1284); non-DMA APM-aware BIOS / Wallmount AC adapter (30 watts) w/ 2 prongs / Selectable boot
Functions Data/fax modem Audio support Audio in/out jacks Telephone Infrared ports	**Data modem, fax modem, audio, telephony function** **14.4/14.4 data/fax modem function (with RJ11 jack)** **16 bit audio chip on planar (ESS688 and Yamaha OPL3) / FM Synthesis Internal speaker (with Fn key volume control) and internal microphone** Input jack / microphone jack / output jack Telephone / answering machine / full duplex speakerphone **Infrared port (on back) / IRDA 1.0 compatible / up to 115.2 Kbps**
Security	Power-on password / locking device keyhole also called MicroSaver™ security connector (Kensington™ lock)
Preinstalled software Warranty	IBM DOS 6.3, Windows™ 3.11, (and OS/2 Warp on DX4 models), and all appls listed to right: **3 year** - EasyServ only (optional onsite special bid only)

PREINSTALLED APPLICATIONS
- IBM DOS 6.3
- Windows 3.11
- ❋ DX4 systems include OS/2 Warp 3.0 (dual boot) with selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for the Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network

Configuration Utility is entered by Fn+F1 at any time

MultiPort II (ships standard) is 1.7 x .9 x 10" and has ports for:
- Mouse/Numpad connector (6 pin)
- External keyboard connector (6 pin)
- EPP parallel port (25 pin)
- Serial connector (RS-232D - 9 pin)
- Audio line in (3.5 mm)
- Audio line out (3.5 mm)
- External display connector (15 pin)
- DC input connector

ECP/EPP port (36 lines) connects either the external floppy or a printer. The standard External Diskette Drive Cable (13.2") has a 36-pin and a 26-pin connector. The Standard Printer Cable Adapter (7.1") has a 36-pin connector and a 25-pin connector (so a conventional printer cable is needed)

✂ Withdrawn from marketing eff December 1995

Compatible in all 701 models:	
- Disks: 540 MB disk 13 ms	04H6894
720 MB disk 13 ms	10H4096
- Dock II (2 slot / 2 bay)	84G3587
- Dock II Adapter Kit	04H6196
- 4 MB SO-DIMM 3.3v	92G7259
- 8 MB SO-DIMM 3.3v	92G7261
- 16 MB SO-DIMM 3.3v	92G7263
- 32 MB SO-DIMM 3.3v	92G7281
- Universal AC Adapter 30 watts	04H8367
- AC Adapter 30 w, wall, 2 pin	10H4020
- AC Adapter 35 w, ww, 3 pin	85G6680
- Super NiCad Battery	10H4019
- NiMH Battery	25H4862
- MultiPort II	10H4021
- External diskette with cable	10H4068
- EPP Printer Cable & Cable Pack	10H4069

ThinkPad 360, 750, 755 family disks, batteries, memory, and Dock I are NOT compatible in the ThinkPad 701 family

FEATURES OF 701CS / 701C MODELS

Battery life indicator
Non-disruptive battery exchange
Standby, suspend, hibernation, and RediSafe modes
US EPA Energy Star compliant
Personalized nameplate in molded indention

HELPWARE

3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic,and Internet (http://www.pc.ibm.com) support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 710T, 720, 720C - withdrawn

IBM® ThinkPad®:	✂ **710T** pen tablet			✂ **720** monochrome		✂ **720C** color TFT
Processor type	**80486 SLC**			**80486 SLC2**		**80486 SLC2**
Processor speed	**25 MHz**			**50/25 MHz**		**50/25 MHz**
Memory cache	16 KB internal			16 KB internal		16 KB internal
Coprocessor socket	No			Yes (for 387 SL)		Yes (for 387 SL)
Diskette drive	Optional 3.5" 1.44 MB			3.5" 1.44 MB		3.5" 1.44 MB
Price (retail USD)	$ 1,859	$ 2,749	$ 2,849	$ 2,495 ♣	$ 2,655 ♣	$ 4,695
Type - model	2523-09Y	2523-302	2523-303	9552-307	9552-308	9552-30J
Hard drive - size	Option (TPF)	**60 MB**	**60 MB**	**120 MB** ◪	**160 MB** ◪	**160 MB** ◪
Hard drive - speed	5, 10, 15 MB	18.5 ms	18.5 ms	17 ms ○	15 ms ○	15 ms ○
Available date	March 93	March 93	March 93	May 93	May 93	May 93
Withdrawal date	Sept 94	Sept 94	March 94	March 94	March 94	March 94
Display - type	VGA mono			VGA mono ◪		**VGA color**
Display - grey scales	16 grey scales			64 grey scales ◪		256 colors 640x480
Display - techology	STN Transflective			STN ◪		Thin film transistor
Display - light source	LCD - Backlit			LCD - backlit ◪		Active matrix
Display - size (diag)	9.5 inch			9.5 inch ◪		10.4 inch
Display - contrast ratio	3 to 1			18 to 1 ◪		100 to 1
180 degree display tilt	N/A			Yes		Yes
Memory - std / max	4 / 12 MB 80 ns			4 / 16 MB 80 ns		4 / 16 MB 80 ns
Mem - sockets empty	1 socket (parity)			2 sockets (parity)		2 sockets (parity)
SIMM/ICs available	2, 4, 8 MB SIMMs			2, 4, 8 MB ICs		2, 4, 8 MB ICs
Keyboard / # of keys	External (any PS/2 keyboard			Full size alp/num/ 84		Full size alp/num/ 84
Fn key functions	N/A (no keyboard)			None		None
Keyboard slope	N/A is supported)			8 degrees (legs)		8 degrees (legs)
Mouse/pointing	Electromagnetic pen			**TrackPoint II**™		**TrackPoint II**
Ext keyboard support	Yes			Yes (with opt cable)		Yes (with opt cable)
Dimensions	11.6 x 9.6 x 1.4"			11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.2"
Cubic inches	156 inches			185 inches		214 inches
Carrying case	Blk nylon standard			Many options available		Many options available
Color	Black			Black		Black
Weight (with battery)	5.2 pounds (09Y); 5.5 pounds (302,3)			6.5 pounds		7.6 pounds
Battery - type	Nickel cadmium			Nickel hydride		Nickel hydride
Batt - life (per battery)	3.3 to 4.1 hrs (09Y); 3.1 to 3.8 (302,3)			4 to 8 hours		2.4 to 4.8 hours
Charge time - on / off	N/A / 3 hrs (unit off or suspend only)			3 hrs / 2 hrs		1.5 hrs / 1.4 hrs
Battery - options	Nickel cadmium half size battery			Yes - status indicator		Yes - status indicator
Architecture	Local / AT I/O, DMA			Micro Channel®		Micro Channel
External AT/MCA port	Yes			Yes		Yes
Comm Crtrdge (1 card)	No			Yes (black)		Yes (black)
Docking Station	No			Yes (3550-002) black		Yes (3550-002) black
Port replicator	No			Yes black		Yes black
Modem/serial slot	No			No		No
PCMCIA slots	3 Type II (09Y); 1 Type II (302, 303)			**2 Type I or 2 Type II**		**2 Type I or 2 Type II**
Visible LEDs - closed	N/A			Yes **or 1 Type III**		Yes **or 1 Type III**
Serial / parallel ports	Yes / Yes			Yes / Yes (DMA)		Yes / Yes (DMA)
APM-aware BIOS	No			APM-aware BIOS		APM-aware BIOS
Other features	09Y: PenDOS, PenPoint on optional			Hrdw security loop		Hrdw security loop
Preinstalled software	solid state files (10, 15 MB).			IBM DOS 5.02,		IBM DOS 5.02,
	302: PenDOS 2.0; 303: PenPoint			PRODIGY®		PRODIGY
Warranty	1 year - EasyServ only			**3 year** - carry in or EasyServ (opt onsite)		**3 year** - carry in or EasyServ (opt onsite)

Boxed notes:
- Transflective: can turn on backlit in dark areas or turn it off in bright areas
- 1 Type III PC Card can occupy 2 Type II slots on Model 09Y

The 700/720 family hard disks, batteries, and docking station are NOT compatible with ThinkPad 360, 750, 755.
The 700/720 memory IS compatible with ThinkPad 360, 750, 755.

FEATURES OF 700/700C and 720/720C

3 year warranty
700/720 mono upgradeable to TFT color
700/700C upgradeable to 486SLC2 50/25
Upgradeable to 120, 160, 240, 340 MB
Removable hard disk
Pressure activated TrackPoint II
Optional battery w/ power status indicators
Quick Charger holds 2 batt; discharge button
Coupon book with $4,000 in savings

♣ Price decrease effective October 28, 1993

✂ Withdrawn from marketing

FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator
Non-disruptive battery exchange
Simultaneous LCD and external CRT
US EPA Energy Star compliant
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support at
  1-800-772-2227

ThinkPad EasyServ™**:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight). STN = Super twisted nematic; ◪ = Upgradeable; ○ = Removable

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No warranties are expressed or implied in this summary
(2THINKW) Compiled by Roger Dodson, IBM. September 1994

IBM ThinkPad 730T - withdrawn

IBM® ThinkPad®:	✂ **730T** pen tablet			
Processor type Processor speed Memory cache Coprocessor socket Diskette drive	**80486SX** (3.3 volt SL Enhanced) **33 MHz** 8 KB internal (no L2 cache) No Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730TE)			
Price (retail USD) Type - model Hard drive - size Hard drive - speed Preinstalled software Avail / withdrawn date	$ 2,569 2524-801 Option (required via PCMCIA disk) N/A May 1994 / June 1996	$ 2,879 2524-901 Option (required via PCMCIA disk) N/A May 1994 / June 1996	$ 3,119 2524-80F **105 MB PCMCIA** 15 ms IBM DOS 6.3 Windows for Pen Computing May 1994 / June 1996	$ 3,429 2524-90F **105 MB PCMCIA** 15 ms IBM DOS 6.3 Windows for Pen Computing May 1994 / June 1996
Memory - std / max Mem - sockets empty Memory - type Memory - options	4 / 20 MB Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot 70 ns / non-parity / 5.0 volt 4, 8, 16 MB ICs	8 / 24 MB	4 / 20 MB	8 / 24 MB
Display - type Display - grey scales Display - techology Display - light source Display - size (diag) Display - contrast ratio	VGA 640 x 480 monochrome 16 grey scales STN Transflective LCD - Backlit 9.5 inch 3 to 1	(External display is 640 x 480 with 16 colors) (Simultaneous LCD and CRT display) Transflective: can turn on backlight in dark areas or turn it off in bright areas		
Keyboard Mouse/pointing	External (any IBM keyboard is supported; attach to port replicator) Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom			
Dimensions Cubic inches Carrying case Color Weight (with battery)	10.6 x 8.3 x 1.4" 123 inches Blk nylon standard (many options also available) Black 3.5 pounds (1 battery); 3.9 pounds (2 batteries)			
Battery - type Battery - quantity Batt - life (per battery) Charge time - on / off	Nickel hydride (NiMH) Two batteries ship standard / can use one or two batteries 1 battery: 2 to 5 hours 2 battery: 4 to 10 hours N/A / 1.5 hours (unit off or suspend only)	A false battery pack ships standard if only want to use one battery		

Architecture
Docking Station
Port replicator
 	
Modem/serial slot
PCMCIA 2.01 slots
 	
Serial / parallel ports
	Local memory bus / ISA
	No
	Yes (ships standard / attach to 200 pin connector)
	Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port,
	④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector
	No (use PCMCIA)
	3 Type II or 2 Type III as follows:
	      1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM
	         memory will leave 1 Type II slot remaining)
	      2nd slot: 2 Type II or 1 Type III (105 MB PCMCIA disk in Models 80F/90F is installed here)
	Yes (on Port Replicator) / Yes (on Port Replicator)			

Warranty	**3 year** - ThinkPad EasyServ™			

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

– PenDOS® 2.2 with IBM DOS 6.3
    84G9180 - PCMCIA HDD 105 MB PenDOS preloaded
– Pen for OS/2 1.0 with OS/2® 2.11
    84G9190 - PCMCIA HDD 105 MB Pen for OS/2 preloaded
– Windows for Pen Computing® 3.1 with IBM DOS 6.3
    Models 80F/90F are preloaded with Windows for Pen Computing
– PenRight! ® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):

IC DRAM only

PCMCIA Type III
260 MB disk in this slot
(Model B0F)

Quick Charger	66G9540	
Car Battery Adapter	66G9545	
NiMH Battery (dual)	66G9550	
AC Adapter 20 watts	84G0480	
PortReplicator	84G0485	
External 3.5" 1.44 MB	48G8263	
diskette drive		
105 MB HDD (PenDOS)	84G9180	
105 MB HDD (PenOS2)	84G9190	
Hand Strap	84G0495	
Soft Case	84G0490	
Battery Case	84G0500	

4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

FEATURES OF THINKPAD 730T

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
  board, fax, and electronic
  support
IBM warranty/service
30 day money back guarantee

IBM® ThinkPad®:	✂ **730TE** pen tablet

	The 730TE is the same as the 730T (older models) except:

	730T	**730TE**
	➪ 486SX - 33 MHz	➪ IntelDX4 - 75/25 MHz
	➪ 105 MB disk preloads	➪ 260 MB disk preloads
		➪ Improved storage door for pen

Processor	**IntelDX4™ 75/25 MHz**
Memory cache	16 KB in DX4 (no L2 cache)
Coprocessor socket	N/A; standard in IntelDX4
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730T)

Price (retail USD)	$ 2,849	$ 3,499
Type - model	2524-B01	2524-B0F
Part number	39H5976	39H5975
Hard drive - size	Option (required	**260 MB PCMCIA**
Hard drive - speed	via PCMCIA disk)	12 ms / 4500 rpm / 16 MB/sec burst transfer rate / 5.7 MB/sec media transfer rate
Preinstalled software	N/A	IBM DOS 7.0
		Windows for Pen Computing
Avail / withdrawn date	Oct 1995 / July 1997	October 1995 / July 1997

Memory - std / max	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot
Memory - type	70 ns / non-parity / 5.0 volt
Memory - options	4, 8, 16 MB ICs

Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)
Display - techology	STN Transflective	
Display - light source	LCD - Backlit	Transflective: can turn on backlight in dark areas or turn it off in bright areas
Display - size (diag)	9.5 inch / 3 to 1 contrast ratio	
Graphics controller	Western Digital WD90C24A / VL-Bus 2.0 local bus / 1 MB DRAM memory	

Keyboard	External (any IBM keyboard is supported; attach to port replicator)
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom

Dimensions	10.6 x 8.3 x 1.4"
Cubic inches	123 inches
Carrying case	Blk nylon standard (many options also available)
Color	Black
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)

Battery - type	Nickel hydride (NiMH)	A false battery pack ships standard if only want to use one battery
Battery - quantity	Two batteries ship standard / can use one or two batteries	
Batt - life (per battery)	1 battery: 1.65 to 5 hours	
	2 battery: 3.3 to 10 hours	
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)	

Architecture	Local memory bus / ISA
Docking Station	No
Port replicator	Yes (ships standard / attach to 200 pin connector)
	Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector
Modem/serial slot	No (use PCMCIA)
PCMCIA™ 2.1 slots	**3 Type II or 2 Type III** as follows:
	1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining)
	2nd slot: 2 Type II or 1 Type III (260 MB PCMCIA disk in Model B0F is installed here)
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)
Security	Power-on password
Warranty	**3 year** - ThinkPad EasyServ™ (Optional Overnight Repair Option)

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

– PenDOS® 2.2 with IBM DOS 7.0
    39H6014 - PCMCIA HDD 260 MB PenDOS preloaded
– Pen for OS/2 1.03 with OS/2® Warp
    39H6017 - PCMCIA HDD 260 MB Pen for OS/2 preloaded
– Windows for Pen Computing® 1.0 with IBM DOS 7.0/Windows 3.11
    Model B0F is preloaded with Windows for Pen Computing
– PenRight! ® (available at dealers)

PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):

IC DRAM only

PCMCIA Type III
260 MB disk in this slot
(Model B0F)

Quick Charger	66G9540	260 MB HDD PCMCIA Type III (Blank)	06H9077
Car Battery Adapter	66G9545	260 MB HDD PCMCIA Type III (Warp for Pen)	39H6017
NiMH Battery (dual)	66G9550	260 MB HDD PCMCIA Type III (PenDOS)	39H6014
AC Adapter 20 watts	84G0480	4 MB IC DRAM 70 ns 5v non-parity	92G7236
PortReplicator	84G0485	8 MB IC DRAM 70 ns 5v non-parity	92G7237
External 3.5" 1.44 MB	48G8263	16 MB IC DRAM 70 ns 5v non-parity	92G7424
diskette drive			
Hand Strap	84G0495		
Soft Case	84G0490		
Battery Case	84G0500		

FEATURES OF THINKPAD 730TE

Suspend/resume mode
Battery life indicator
Non-disruptive battery exchange
US EPA Energy Star compliant
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.

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  No warranties are expressed or implied in this summary
  (730TE) Compiled by Roger Dodson, IBM. June 1997

IBM ThinkPad 750 - withdrawn

IBM® ThinkPad®:	✂ **750** monochrome	✂ **750Cs** passive color	✂ **750C** color TFT	✂ **750P** convertible pen	✂ **Traveling Multimedia** preconfigured system
Processor type Processor speed Memory cache Coprocessor socket Diskette drive	*All:* **80486 SL** with math co *All:* **33 MHz** *All:* 8 KB internal *All:* N/A (std in 486SL) *All:* 3.5" 2.88 MB ○	The removed diskette drive can be utilized externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the ① Port Replicator Model I, ② Port Replicator Model II, or ③ Dock I Docking Station.			A preconfigured, multimedia **750C;** Available Sept 93; $ 7,245 ✤
Price (retail USD) Type - model Hard drive - size Hard drive - speed Avail / withdrawal date	$ 3,199 $ 3,749 9545-006 9545-008 **170 MB**▰ **340 MB** ▰ 15 ms ○ 14 ms ○ Sept 93 / withd Sep 94	$ 2,599 ✤ $ 2,999 ✤ 9545-206 9545-208 **170 MB**▰ **340 MB** ▰ 15 ms ○ 14 ms ○ Nov 93 / withd Sept 94	$ 4,699 $ 5,249 9545-306 9545-308 **170 MB**▰ **340 MB** ▰ 15 ms ○ 14 ms ○ Sept 93 / withd Sep 94	$ 2,599 $ 2,999 9545-40C 9545-40E **170 MB**▰ **340 MB** ▰ 15 ms ○ 14 ms ○ Sept 93 / withd Sept 94	Included with the IBM Traveling Multimedia: Hardware: - 750C (all features listed on left) - 340MB removable hard disk
Display - type Display - grey scales Display - techology Display - light source Display - size (diag) Display - contrast ratio 180 degree display tilt	VGA mono ▰ ▰ 64 grey scales ▰ ▰ STN ▰ ▰ LCD - Sidelit ▰ ▰ 9.5 inch ▰ ▰ 18 to 1 ▰ ▰ Yes (external SVGA)	**VGA color** 256 colors 640x480 STN - passive matrix LCD - Sidelit 9.5 inch **Dual scan** 20 to 1 Yes (external SVGA)	**VGA color** 256 colors 640x480 Thin film transistor **Active matrix** 10.4 inch 100 to 1 Yes (external SVGA)	VGA mono 64 grey scales STN - **pen enabled** LCD - Sidelit 9.5 inch 18 to 1 Yes (external SVGA)	- 12 MB memory (4 MB std + 8 MB IC DRAM card) - 14.4 Data/Fax modem (PCMCIA) - Dock I (Docking Station)
Memory - std / max Mem - sockets empty SIMM/ICs available	*All:* 4 / 20 MB 70 ns *All:* 1 socket (parity) *All:* 2, 4, 8, 16 MB ICs	*Additional video features for all:* 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)			- CD-ROM/XA - double speed and Kodak Photo CD multisession - Dock I Carrying Case
Keyboard / # of keys Keyboard slope Mouse/pointing Ext keyboard support	*All:* Full size alp/num/ 85 *All:* Yes (legs pop out) *All:* **TrackPoint II** *All:* Yes (with option cable)	Fn key functions to instantly change in any appl: ① Fuel guage ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode			Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations)
Dimensions Cubic inches Carrying case Color Weight (with battery)	11.7 x 8.3 x 1.7" 165 inches Blk nylon (option) Black 5.5 pounds	11.7 x 8.3 x 2.0" 194 inches Blk nylon (option) Black 6.2 pounds	11.7 x 8.3 x 2.0" 194 inches Blk nylon (option) Black 6.4 pounds	11.7 x 8.3 x 2.1" 204 inches Blk nylon (option) Black 6.6 pounds	- Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem)
Battery - type Batt - life (per battery) Charge time - on / off	Nickel hydride (smart) 5.3 to 12 hours 1.5 hrs / 1.5 hrs	Nickel hydride (smart) 3.5 to 8 hours 2.0 hrs / 1.5 hrs	Nickel hydride (smart) 3.4 to 8 hours 2.0 hrs / 1.5 hrs	Nickel hydride (smart) 5.1 to 12 hours 1.5 hrs / 1.5 hrs	- Delrina WinFax PRO (fax software)
Architecture (ext port) Docking Station Port replicator PCMCIA 2.01 slots Serial / parallel ports Other features	*All:* AT bus (with external port) *All:* Yes (Dock I and II below) *All:* 2 types (below) *All:* **2 Type I or 2 Type II or 1 Type III** *All:* Yes (one 9 pin) / Enhanced Parallel Port (EPP) with 2 MB/sec transfer speed (non-DMA) *All:* BIOS/Easy Set up/Diagnostics in FLASH EEPROM / APM-aware BIOS / Hibernation mode	*Diskette drive can be removed* ① *to reduce weight,* ② *to insert cellular modem (CDPD),* ③ *to insert TV Tuner (for on screen TV and VCR playback), or* ④ *to add other third party options.*			**ALL 750 MODELS** *Liftable (pop-up) keyboard* **to access diskette drive, disk, battery, and memory**
Audio support Audio in/out jacks Security	*All:* 16 bit audio chip on planar with Mwave audio codec / Internal high fidelity speaker *All:* Input jack supports microphone / Output jack supports headphone or stereo speakers *All:* Hardware security loop / Power-on password / Supervisor password (privileged access password) for hardware config changes / Hard disk password (HDP) allows use of disk				
Preinstalled software Warranty	DOS 6.1, PRODIGY® Online info, demo **3 year** - carry in or EasyServ (opt onsite)	DOS 6.1, PRODIGY Online info, demo **3 year** - carry in or EasyServ (opt onsite)	DOS 6.1, PRODIGY Online info, demo **3 year** - carry in or EasyServ (opt onsite)	DOS 6.1, Windows™ 3.1, PenDOS™ 2.2, Windows for Pen, PRODIGY, Online info, demo **3 year** - carry in or EasyServ (opt onsite for $40 each year; all mod)	

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 750. The 700/720 memory IS compatible with 750

Dock I (Docking Station) $685

SCSI-1 controller;   two stereo speakers;
One full-size 16 bit AT bus slot;   6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360750/755;
Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719

SCSI-2 Fast controller;   two stereo speakers;
Two full-size 16 bit AT bus slots;   17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Can house removable disk from 360/750/755;
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299

2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power

Port Replicator Model II $109
Same as Model I except *no* PCMCIA slots

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750 MONOCHROME

Upgradeable to ① monochrome pen enabled screen (same as 750P), or ② 10.4" TFT color

750Cs DUAL SCAN COLOR

Dual scan passive matrix color screen

750C ACTIVE MATRIX COLOR

Largest 10.4" active matrix color screen

750P CONVERTIBLE PEN

Same display as the 750 monochrome.
Can be used in normal upright position or folded down into a position suitable for writing via the standard untethered stylus.

Cellular Digital Packet Data (CDPD)
Mobile Communications Module
Provides transmission of analog and digital data using a cellular telephone.
Supported on 750, 750Cs, 750C (not 750P).
High speed 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless;   available April 1994; $1,999

Many other options available from IBM

FEATURES OF ALL 750 FAMILY

3 year international warranty
16 bit audio chip on planar (Mwave™)
Headphone (out)/microphone (in) audio jacks
Removable and upgradeable hard disks
Removable diskette drive
Pressure activated TrackPoint II
Std intelligent battery with built in processor for accurate monitoring on screen
Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Non-disruptive battery exchange
Standby / suspend / hibernation modes
Hibernation mode saves memory to the hard disk and shuts system off
Selectable boot
US EPA Energy Star compliant
Personalized nameplate in molded indention
Coupon book with $4,000 in savings
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 4 business days (no shipping charges, most shipping is overnight).   ▰ = Upgradeable ;   ○ = Removable;   ✤ Price decrease effective October 17, 1994

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
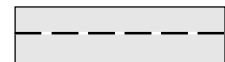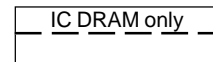(750THINK) Compiled by Roger Dodson, IBM. October 1994

IBM® ThinkPad®:	✂ **755Cs** dual scan color			✂ **755C** TFT color			✂ **Traveling Multimedia** preconfigured system
Processor type	**80486 DX2** ☐ to DX4	**IntelDX4**		**80486 DX2** ☐ to DX4	**IntelDX4**		A preconfigured, multimedia**755C;**
Processor speed	**50/25 MHz** 3.3 volt	**75/25 MHz** 3.3 volt		**50/25 MHz** 3.3 volt	**75/25 MHz** 3.3 volt		Available June 94;
Memory cache	8 KB internal (no L2)	16 KB internal (no L2)		8 KB internal (no L2)	16 KB internal (no L2)		withdrawn Dec 95
Coprocessor socket	N/A (std in 486DX2)	N/A (std in 486DX4)		N/A (std in 486DX2)	N/A (std in 486DX4)		Part #2337289
Removable diskette	3.5" 1.44 MB ○	3.5" 1.44 MB ○		3.5" 1.44 MB ○	3.5" 1.44 MB ○		$ 6,399 ✎
Price (retail USD)	$3,399	$3,899	$4,299	$3,899	$4,399	$4,799	$2,799 $3,099 $3,449 $3,399 $3,699 $3,999
Type - model **all 9545**	E0C	E0E	E0G	K0C	K0E	K0G	Included with the IBM Traveling Multimedia:
Removable disk - size	**170**☐	**340**☐	**540**☐	**170**☐	**340**☐	**540**☐	
Hard disk - speed ms	15 ○	14 ○	14 ○	15 ○	14 ○	14 ○	Hardware:
Avail / withdrawn date	Jun 94 / May 95			Jun 94 / May 95			

(755C models): F0C $2,799 / F0E $3,099 / F0G $3,449 (170/340/540, 15/14/14 ms, Jun 94/Dec 95); L0C $3,399 / L0E $3,699 / L0G $3,999 (170/340/540, 15/14/14 ms, Jun 94/Dec 95)

Display - type	**VGA color**	**VGA color**
Display - colors	256 colors 640x480 (pallette of 4096 colors)	256 colors 640x480 (pallette of 262,144 colors)
Display - techology	STN - passive matrix	**TFT - active matrix**
Display - light source	LCD - Sidelit	LCD - Backlit
Display - size (diag)	9.5 inch **Dual scan**	10.4 inch
Display - contrast ratio	20 to 1	100 to 1

Graphics - controller	*All:* WD90C24A or WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 4.3
Graphics - vendor	*All:* Western Digital / External SVGA to 1024 x 768 w/ 256 colors
Graph - arch/data path	*All:* VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	*All:* 4 / 36 MB 70 ns — Memory upgraded via ① 1 open socket for IC memory card for 20 MB
Mem - sockets empty	*All:* 1 socket (parity) — max or ② new DIMM technology for max of 36 MB with 4 or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.
Mem-options available	*All:* 2, 4, 8, 16, 32 MB ICs or 4, 16 MB DIMMs that works on optional Memory Module Adapter

Keyboard / # of keys	*All:* Full size alp/num/ 85
Fn key functions	*All:* 8 (in any appl)
Keyboard slope	*All:* Yes (legs pop out)
Mouse/pointing	*All:* **TrackPoint II**™
Ext keyboard support	*All:* Yes (with option cable)

Fn + F2 = Fuel guage | Fn + F7 = Ext display/LCD
Fn + F3 = Standby | Fn + F8, F9, F10 = (reserved)
Fn + F4 = Suspend | Fn + F11 = Power mgmt
Fn + F5 = Audio decrease | Fn + F12 = Hibernation mode
Fn + F6 = Audio increase

Dimensions	*All:* 11.7 x 8.3 x 2.0" (194 cubic inches) — Easy-Setup is entered by holding F1 when turning on.
Color	*All:* Black
Weight (with battery)	6.1 pounds / 6.4 pounds
Battery - type	Nickel hydride (smart) / Nickel hydride (smart)
Batt - life (per battery)	4 to 8 hours / 3.1 to 8 hours
Charge time - on / off	2 hrs / 1.5 hrs / 2.0 hrs / 1.5 hrs

Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.

Architecture	*All:* AT bus (ISA) — Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.
Docking Station	*All:* **Yes** (Dock I and II below)
Port replicator	*All:* **Yes** (2 types below)
PCMCIA™ 2.1 slots	*All:* **2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	*All:* Yes (one 9 pin; 16550A) / Enhanced Parallel Port (EPP); non-DMA
Other features	*All:* APM-aware BIOS / Hibernation mode / Wallmount A/C adapter (40 watts) / Selectable boot

Audio support	*All:* 16 bit audio chip on planar / Crystal Semiconductor CS4248 / Internal speaker and microphone
Audio in/out jacks	*All:* Input jack supports microphone / Output jack supports headphone or stereo speakers
Security	*All:* Power-on password / Hard disk password / Supervisor password (for hardware config changes) / Hardware security loop / PCMCIA card lock / (Security Base optional)

Preinstalled software	*All:* IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0,④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online℠, ⑧ SofNet FaxWorks™ 3.0
Warranty	*All:* **3 year** - carry in or EasyServ (opt onsite $40 yr) — *The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; $135) to the Port Replicator Model I and II and Dock I.*

Traveling Multimedia hardware (right column):
- 755C Model L0G
- DX4 75/25 with all features listed on left
- 540 MB removable hard disk
- 8 MB memory (4 MB std + 4 MB DIMM on Memory Adapter)
- 14.4 Data/Fax modem (PCMCIA)
- Dock I (Docking Station)
- CD-ROM/XA - double speed and Kodak Photo CD multisession
- Dock I Carrying Case
- Interlink® ProPoint™

Software - same as 755C plus:
- Asymetrix®COMPEL™
- Asymetrix MediaBlitz! (library of media clips)
- LapLink™ V
- Picture Factory™
- TalkWorks™
- Sound Effects Library
- ClickArt™ 2000

ALL 755 MODELS
Liftable (pop-up) keyboard **to access and remove diskette drive, disk, battery, and memory**

Dock I (Docking Station) $685
SCSI-1 controller; two stereo speakers;
One full-size 16 bit AT bus slot; 6.0 pounds;
One bay (slim high 1") for 3.5" or 5.25" devices
Can house removable disk from 360/750/755;
Replication of ports on back of 360/750/755;
Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;

Dock II (Docking Station) $719
SCSI-2 Fast controller; two stereo speakers;
Two full-size 16 bit AT bus slots; 17.6 pounds;
Two 5.25" bays (1" high (SL) and 1.5" high HH);
Two PCMCIA slots (Type II and III);
Many ports including audio, diskette, SCSI;
Plug and Play ready

Port Replicator Model I $299
2 Type I or 2 Type II or 1 Type III PCMCIA slots
Provides cable management because all the cables attach to Replicator, not the ThinkPad
Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power

Port Replicator Model II $109
Same as Model I except *no* PCMCIA slots

The ThinkPad 755 family supports all of the options of the ThinkPad 750 family.

Compatible in 360, 750, and 755 family:
- Hard disks (170, 250, 340, 540, 810 MB)
- Batteries (see below)
- Dock I and Dock II - Diskette drive
- Port Replicator I - AC Adapter
- Port Replicator II - Quick Charger
- CDPD Mobile Module (not pen models)

ThinkPad IC memory for 700, 720, 750, and 755 are all compatible.

The 700 and 720 family hard disks, batteries, and docking station are NOT compatible with 750 or 755 family.

Battery compatibility:	360	750	755
84G2392 360 NiMH battery	Y	N	N
66G2846 750 NiMH battery	Y	Y	Y

Y = battery supported; N = not supported

Winstone 94 for 755C DX4 = 37.8

Cellular Digital Packet Data (CDPD)
Mobile Communications Module $1,999
Provides transmission of analog and digital data using a cellular telephone.
Supported on all 360/750/755 (except 750P).
14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless.

FEATURES OF ALL 750 and 755 FAMILY

Discharge battery via mouse click
Quick Charger holds 2 batt; discharge button
Battery life indicator
Non-disruptive battery exchange
Standby / suspend / hibernation modes
EasyPlaying (PC Card Director™) preinstalled and included on Utility Diskette (755 only)
US EPA Energy Star compliant
Personalized nameplate in molded indention
International travelers warranty
IBM or dealer warranty/service
30 day money back guarantee
24 hour / 7 day fax support
24 hour / 7 day bulletin board support
24 hour / 7 day telephone support

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
☐ = Upgradeable   ○ = Removable   ✎ Price decrease effective May 11, 1995

All trademarks are the property of their respective owners
No warranties are expressed or implied in this summary
✂ Withdrawn from marketing
(755THINK) Compiled by Roger Dodson, IBM. December 1995

IBM ThinkPad 755CSE / CE - withdrawn

IBM® ThinkPad®:	✂ **755CSE** dual scan color			✂ **755CE** TFT color		
Processor type	**IntelDX4**™ / no L2 cache					
Processor speed	**100/33 MHz** / 3.3 volt					
Processor / L2 upgrade	Pentium 75/50 MHz which includes L2 cache of 256 KB / write-through / direct mapped / 12 ns / soldered					
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay					
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)					

Price (retail USD)	$ 3,499 ↘	$ 3,849 ↘	$ 4,299 ↘	$ 4,299 ↘	$ 4,649 ↘	$ 5,099 ↘
Type - model	9545-6BC	9545-6BD	9545-6BE	9545-7BC	9545-7BD	9545-7BE
Removable disk - size	**340 MB** ☑	**540 MB** ☑	**810 MB**	**340 MB** ☑	**540 MB** ☑	**810 MB**
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Nov 1994	Nov 1994	Nov 1994	Oct 1994	Oct 1994	Oct 1994

Display - type	**VGA color** / 640 x 480	**VGA color** / 640 x 480
Display - colors	256 simultaneous colors	65,536 simultaneous colors
Display - techology	**Dual scan**	**Black Matrix TFT - active matrix**
Display - diagonal size	**10.4 inch** / 20 to 1 contrast ratio	**10.4 inch** / 100 to 1 contrast ratio

Graphics - controller	WD90C24A2 with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	8 MB / 40 MB 70 ns / **parity** / 5 volt	Memory upgraded via
Mem - sockets empty	1 socket	① 1 open socket for IC mem-
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	ory card for 20 MB max or ② new DIMM technology for
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	max of 40 MB with 4, 8, or
Keyboard slope	Yes (legs pop out)	16 MB JEDEC 72 pin SO
Mouse/pointing	**TrackPoint III**™	DIMMs on optional Memory
Ext keyboard support	Yes (with option cable)	Module Adapter.

Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)	**ALL 755CSE / CE MODELS**
Color	Black	
Weight (with battery)	6.4 pounds	*Liftable (pop-up) keyboard* to
Battery - type	Nickel hydride (NiMH) / intelligent	**access and remove diskette drive,**
Battery - life	3.3 to 10 hours	**disk, battery, and memory**
Charge time - on / off	1.7 hrs / 1.2 hrs	

Architecture	AT bus (ISA)	Intelligent battery with a processor to
Docking Station	Dock I and II	allow accurate monitoring of battery
Port replicator	Port Replicator I and II	condition and accurate fuel guage.
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**	
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and ECP)	
Other features	APM-aware BIOS / Wallmount A/C adapter (40 watts) / Selectable boot	

DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal speaker (with dial volume control) and internal microphone**
Audio in/out jacks	Input jack / output jack supports
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right:
Warranty	**3 year** - carry in or EasyServ (optional onsite $40 yr)

ThinkPad 755CSE / CE strengths:

➪ **DSP with audio, data/fax modem, telephony**
➪ **Infrared communication**
➪ **Color: 10.4 dual scan or 10.4 Black Matrix TFT**
➪ **Removable disk and diskette**
➪ **Liftable keyboard and TrackPoint III**
➪ **Upgrade to Pentium with L2 cache**

Integrated Mwave™ DSP provides:

① **Data modem function**
   - V.22bis (2400 bps)
   - V.32 (9600 bps)
   - V.32bis (14.4 Kbps)
② **Fax modem function**
   - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
   - Stereo waveform record and playback
   - Qsound™ support (3-D effect)
   - 32 voice MIDI wave table synthesizer
   - SoundBlaster™ support
   - Text to speech (via Monologue)
④ **Telephone function**
   - Full telephone (can use opt headset)
   - Telephone answering machine
   - Full duplex speakerphone
➪ **Software upgradeable** (28.8 and DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 6.3
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ BonusPak
   - CompuServe Info Mgr™, IBM Works
   - Internet Connection, Person to Person
   - HyperACCESS Lite™, Video IN
   - FaxWorks™, MM Viewer™
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo (except 340 MB mod)
- Online Users Guide
- ThinkPad features
1. Lotus® cc:Mail™, e-mail for Advantis®
   network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Mwave Sampler (CD)

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed (from UltraBay™)
① to reduce weight
② to insert cellular modem (CDPD)
③ to insert TV Tuner (for on screen TV and VCR playback)
④ to insert PCMCIA Cartridge (Type I, II, or III)
⑤ to insert 2.88 MB diskette
⑥ to add other third party options

Options for 755CSE / CE:

- NiMH Battery Pack II   85G1513
- 760 NiMH Battery (black)   41H9720
- TV Tuner (CE only)   66G3689
- FDD External Attachment Kit   66G3618
- Memory Module Adapter   84G2151
- 4 MB SO DIMM parity   92G7253
- 8 MB SO DIMM parity   92G7255
- 16 MB SO DIMM parity   92G7257

Compatible in all ThinkPad 360 family, 750 family, 755 family:
- Disks: 170 MB IDE   66G2847/9
            250 MB IDE   84G2391
            340 MB IDE   66G2849
            540 MB IDE   84G2150
            810 MB IDE   84G8250
- Dock I   (1 slot / 1 bay)   3545001
- Dock II   (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108

Options for 755CSE / CE:

- PCMCIA Cartridge   84G1301
- **Pentium/L2 upgrade**   **85G8609**

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CSE / CE MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
SelectaSystem™ capability to select operating
   system choice
3 year warranty
International Warranty Service
**24 hour / 7 day telephone, bulletin
   board, fax, and electronic support**
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

✂ Withdrawn from marketing effective
   December 1995

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99..
☐ = Upgradeable   ○ = Removable   ↘ Price decrease effective June 20, 1995

IBM ThinkPad 755CX - withdrawn

IBM® ThinkPad®:	✂ **755CX** No DSP - 640 x 480		✂ **755CX** DSP - 800 x 600		**Same as ThinkPad 755CE except includes:**
Processor type	**Pentium® 75/50 MHz**				▷ **Pentium 75/50 MHz**
Coprocessor socket	N/A (standard in Pentium)				▷ **256 KB L2 cache**
L2 cache	256 KB / write-through / direct mapped / 12 ns / soldered				▷ **SVGA 800 x 600 LCD (on some models)**
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette				▷ **Non-parity memory**
	Supports PCMCIA Cartridge or CDPD in diskette bay				▷ **Lithium ion battery (on two models)**
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)				▷ **DOS 7.0** (instead of DOS 6.3) **and Mind Path Pro**

Price (retail USD)	$ 3,749 ✚	$ 4,149 ✚	$ 4,849	$ 5,249	$ 5,699
Type - model	9545-SBJ	9545-SBK	9545-HBD	9545-HBE	9545-HBL
Part number	84G6381	85G1669	85G8555	85G8524	85G7518
Removable disk - size	**540 MB** ❑ ○	**810 MB** ❑ ○	**540 MB** ❑	**810 MB** ❑	**1.2 GB** ○
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	12 ms
Avail / withdrawn date	Jun 95 / Jun 96	Jun 95 / Jun 96	May 1995	May 1995	Sept 95 / Jun 96

PREINSTALLED APPLICATIONS

- IBM DOS 7.0   *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Official Airline Guide® Flight Disk® 1.0
5. Triton CoSession™ Host
6. PRODIGY®; 7. America Online®
8. SofNet FaxWorks™ Voice® 3.0
9. Video For Windows™ 1.1 Runtime
10. Monologue (text to speech)
11. Puma TranXit™ (infrared function)
12. Taxi™
13. Second Nature Screen Saver
14. Farallon® Replica™
15. AlphaNet™ FollowFax™
16. SEDONA™ REPRINT™
17. COMPEL™ Personal Edition
18. Audiofile® TalkWorks™
19. Reuters℠ Money® Network
20. Mind Path™ Presentation F/X Pro

Display - type	**VGA color / 640 x 480**	**SVGA color / 800 x 600**
Display - colors	**65,536 simultaneous colors**	
Display - techology	**Black Matrix TFT - active matrix**	
Display - diagonal size	**10.4 inch** / 100 to 1 contrast ratio	**10.4 inch** / 110 to 1 contrast ratio

Graphics - controller	WD90C24A (Rev C) with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	8 MB / 40 MB 70 ns / non-parity / 5 volt	Memory upgraded via
Mem - sockets empty	1 socket (parity memory supported but w/o parity)	① 1 open socket for IC memory card for 40 MB max or
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8,16 MB DIMMs that work on optional Memory Module Adapter	② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out)
Mouse/pointing	**TrackPoint III™**
Ext keyboard support	Yes (with option cable)

Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)
\Weight (with battery)	6.1 pounds

Battery - type	**NiMH /** intelligent	**Lithium ion /** intelligent	
Battery - life	2.6 to 8 hours Supports optional	3 to 9 hours Supports optional	
Charge time - on / off	1.7 hrs / 1.2 hrs Li-Ion battery	2-2.5 hrs / 1.5-2 hrs NiMH battery	

Architecture	AT bus (ISA)	Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel guage.
Docking Station	Dock I and II	
Port replicator	Port Replicator I and II	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot	

Video function	None	None
DSP function	None (but can order DSP upgrade)	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	None (but can order DSP upgrade)	**Data/fax modem function via DSP**
Audio support	None (but can order DSP upgrade)	**16 bit audio chip on planar with Mwave DSP**
		Internal speaker (with dial volume control) and internal microphone
Audio in/out jacks	None (but can order DSP upgrade)	Input jack supports microphone / Output jack supports headphone/speakers
Telephone	None (but can order DSP upgrade)	Telephone (w/ opt headset) / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 1.15 Mbps**	

Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ lock) / PCMCIA card lock
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in

ThinkPad 755CX supported batteries:

- NiMH Battery Pack II — 85G1513
- Lithium Ion — 85G8561
- Li-Ion Battery Pack II — 29H9329
- Travel Quick Charger — 85G1522
  (for NiMH or Li-Ion)

Upgradeable or Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support
- Text to speech (via Monologue)

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

▷ **Software upgradeable** (to 28.8 and DSVD)

Easy-Setup is entered by holding F1 when turning on.

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks:
  - 170 MB IDE — 66G2847
  - 250 MB IDE — 84G2391
  - 340 MB IDE — 66G2849
  - 540 MB IDE — 84G2150
  - 810 MB IDE — 84G8250
  - 1.2 GB IDE — 85G8562
- Dock I   (1 slot / 1 bay) — 3545001
- Dock II (2 slot / 2 bay) — 3546001
- Port Replicator I (w/ PCMCIA) — 66G3510
- Port Replicator II — 66G3520
- 1.44 MB diskette — std in newer
- 2.88 MB diskette — 66G0108

Options for 755CX:

- PCMCIA Cartridge — 84G1301
- FDD External Attachment Kit — 66G3618
- CDPD Communications Module — 71G2560
- Mwave DSP Upgrade — 2420801

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

FEATURES OF 755CX MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)
30 day money back guarantee

IBM ThinkPad 755CV - withdrawn

IBM® ThinkPad®:	✂ **755CV** Projector LCD - DX4	✂ **755CV** Projector LCD - Pentium	
Processor type L2 cache Processor / L2 upgrade	**IntelDX4™ 100/33 MHz** None to Pentium 75/50 MHz which includes 256 KB L2 cache	**Pentium® 75/50 MHz** 256 KB write-through / 12ns direct mapped /soldered 64 bit to L2 / 32 bit to mem	
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay		
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)		

| Price
Type-model / part
Removable disk - size
Removable disk - spd
Avail / withdrawn date | 9545-8BJ
540 MB ❑
14 ms ○
May 95 / Jun 96 | 9545-EBK /9545EBK
810 MB ❑
14 ms ○
Sept 95 / Oct 96 | 9545-EBL /9545EBL
1.2 GB ❑
12 ms ○
Sept 95 / Oct 96 |

| Display - type
Display - colors
Display - techology
Display - diagonal size
Display - projector | **VGA color** / 640 x 480
65,536 simultaneous colors
TFT - active matrix
10.4 inch / 100 to 1 contrast ratio
Overhead projector LCD by removing back (includes Stand and Strap) | | |

| Graphics - controller
Graphics - vendor
Graph - arch/data path | WD90C24A2 with 1 MB DRAM
Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt | | |

| Memory - std / max
Mem - sockets empty
Mem-options available | 8 MB / 40 MB 70 ns / parity
1 socket / 5 volt
2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that
work on optional Memory Module Adapter | non-parity | Memory upgraded via
① 1 open socket for IC mem-
ory card for 40 MB max or
② new DIMM technology for
max of 40 MB with 4, 8, or
16 MB JEDEC 72 pin SO
DIMMs on optional Memory
Module Adapter. |

| Keyboard / # of keys
Keyboard slope
Mouse/pointing
Ext keyboard support | Full size alp/num / 85 (8 Fn key functions)
Yes (legs pop out)
TrackPoint III™
Yes (with option cable) | Includes Mind Path™
Remote Control
IR55 F/X | |

| Dimensions
Color
Weight (with battery) | 11.7 x 8.3 x 1.96" (190 cubic inches)
Black
6.6 pounds | *Liftable (pop-up) keyboard to*
***access and remove diskette drive,
disk, battery, and memory*** | |

| Battery - type
Battery - life
Charge time - on / off | Nickel hydride (NiMH) / intelligent
3.3 to 10 hours
1.7 hrs / 1.2 hrs | 2.6 to 8 hours
all support optional Lithium Ion (see below) | |

| Architecture
Docking Station
Port replicator
PCMCIA 2.1 slots
Serial / parallel ports
Other features | AT bus (ISA)
Dock I and II
Port Replicator I and II
2 Type I or 2 Type II or 1 Type III
One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot | Intelligent battery with a processor to
allow accurate monitoring of battery
condition and accurate fuel guage. | |

DSP function Data/fax modem Audio support	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function** **Data/fax modem function via DSP** **16 bit audio chip on planar with Mwave DSP** **Internal speaker (with dial volume control) and internal microphone**		
Audio in/out jacks Telephone Infrared ports	Input jack / output jack Telephone (w/ opt headset) / answering machine / full duplex speakerphone **Infrared ports (front and back) / IRDA compatible / up to 1.15 Mbps**		
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock		

| Preinstalled software
Warranty | IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Ver 3, and all appls listed to right:
3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in | | |

Ships standard w/ **Mind Path™ Remote Control**

- Wireless, hand held remote control
- Uses infrared to communicate up to 45 feet away
- Includes 5 buttons for instant effects
- Permits full control of mouse

Includes **Mind Path Presentation F/X software**

- Allows 20 real-time special effects
- Includes zoom, telestrator, spotlight, magnify, and others
- Works with all Windows applications

Easy-Setup by holding F1 when turning on

ThinkPad 755CV supported batteries:

- NiMH Battery Pack II   85G1513
- Lithium Ion   85G8561
- Li-Ion Battery Pack II (Pentium only) 29H9329

ThinkPad IC DRAM memory for 700, 720, 750,
755 families are all compatible.

Compatible in all ThinkPad 360 family, 750
family, 755 family:

- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CV:

- PCMCIA Cartridge		84G1301
- TV Tuner		66G3689
- FDD External Attachment Kit		66G3618
- **Pentium/L2 upgrade** (DX4 mod)		**85G8609**
- Cooling Fan Kit (for overhead)		29H8000

Same as ThinkPad 755CE except includes:

- ⇨ **Overhead projector LCD**
- ⇨ **Supports optional lithium ion battery**
- ⇨ **Mind Path™ Remote Control IR55 F/X and software**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis (2400 bps)
  - V.32 (9600 bps)
  - V.32bis (14.4 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound™ support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support
  - Text to speech (via Monologue)
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
- ⇨ **Software upgradeable** (to 28.8 & DSVD)

PREINSTALLED APPLICATIONS

- IBM DOS 7.0   *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for Global® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters℠ Money® Network
17. Asymetrix 3D F/X
18. Mind Path™ Presentation F/X Pro

FEATURES OF 755CV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http:\\www.pc.ibm.com) support
IBM or dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable   ○ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(755CV) Compiled by Roger Dodson, IBM. October 1996

IBM® ThinkPad®:	✂ **755CD** TFT color - DX4		✂ **755CD** TFT color - Pentium	
Processor type L2 cache Processor / L2 upgrade	**IntelDX4™ 100/33 MHz** None to Pentium 75/50 MHz which includes 256 KB L2 cache		**Pentium® 75/50 MHz** 256 KB write-through / 12 ns direct mapped / soldered 64 bit to L2 / 32 bit to mem	
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay			
Removable CD-ROM	**5.25" CD-ROM ○ / double speed / multi-session / XA / front loaded / IDE**			

ThinkPad 755CD strengths over 755CE / CSE:
- ⇨ **Mobile multimedia - exceeds MPC2 standard**
- ⇨ **Removable, double speed, 5.25" CD-ROM**
- ⇨ **Video card (acceleration, composite in/out)**
- ⇨ **Joystick/MIDI port**
- ⇨ **Stereo speakers**

Price Type - model Removable disk - size Avail / withdrawn date	9545-9BD **540 MB** / 14 ms Oct 1994 / Jun 96	9545-9BE **810 MB** / 14 ms Oct 94 / Jun 96	9545-FBK **810 MB** / 14 ms Sept 95 / Jun 96	9545-FBL **1.2 GB** / 12 ms Sept 95 / Jun 96

The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

Display - type Display - techology Display - diagonal size	**VGA color** / 640 x 480 **/ 65,536 simultaneous colors** **Black Matrix TFT - active matrix** 10.4 inch / 100 to 1 contrast ratio

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory

Graphics - controller Graphics - vendor Graph - arch/data path	WD90C24A2 with 1 MB DRAM Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz) VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Integrated Mwave™ DSP provides:
- ① **Data modem function**
  - V.22bis, V.32, V.32bis (14.4 Kbps)
- ② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
- ③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support; Text to speech
- ④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
- ⇨ **Software upgradeable** (to 28.8 & DSVD)

Memory - std / max Mem - sockets empty Mem-options available	8 MB / 40 MB 70 ns / parity 1 socket / 5 volt 2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter	non-parity

Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

Keyboard / # of keys Keyboard slope Mouse/pointing Ext keyboard support	Full size alp/num / 85 (8 Fn key functions) Yes (legs pop out) **TrackPoint III™** Yes (with option cable)

Dimensions Color Weight(w/batt/CD-ROM)	11.7 x 8.3 x 2.2" (214 cubic inches) Black 7.3 pounds

Battery - type Battery - life Charge time - on / off	Nickel hydride (NiMH) / intelligent 3 to 9 hours 1.7 hrs / 1.2 hrs	Nickel hydride (NiMH) / intelligent 2.5 to 8 hours **Supports** 1.7 hrs / 1.2 hrs **optional Li-Ion**

PREINSTALLED APPLICATIONS

- IBM DOS 6.3 (DOS 7.0 on Pentium mod)
- Windows 3.11   (dual boot)
- OS/2 Warp 3.0 w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features
1. Lotus® cc:Mail™, e-mail for Advantis® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital video Producer™
18. Mind Path™ Presentation F/X Pro
19. CD-ROM Catalog/Sampler

Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	AT bus (ISA) Dock I and II Port Replicator I and II **2 Type I or 2 Type II or 1 Type III** One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional); non-DMA APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot

Video function (below) DSP function Data/fax modem Audio support Audio in/out jacks Telephone Infrared ports	**Daughtercard with video acceleration, composite in/out, game port** **Mwave MDSP2780 DSP with modem, fax, audio, telephony function** **Data/fax modem function via DSP** **16 bit audio chip on planar with Mwave DSP** **Int stereo speakers .5 watts (with dial volume control) / int microphone** Input jack / output jack Telephone / answering machine / full duplex speakerphone **Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**

Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock

Preinstalled software Warranty	IBM DOS, Windows™ 3.11, OS/2 Warp 3.0, and all appls listed to right: **3 year** - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

Enhanced Video Card in 755CD provides:
- **Acceleration** of 'Video for Windows'™ motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
- **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
- Includes a video in and video out port (includes two video in/out cables)
- Use software called Digital Video Producer™

Compatible in all ThinkPad 360 family, 750 family, 755 family:
- Disks:	170 MB IDE	66G2847/9
	250 MB IDE	84G2391
	340 MB IDE	66G2849
	540 MB IDE	84G2150
	810 MB IDE	84G8250
	1.2 GB IDE	85G8562
- Dock I	(1 slot / 1 bay)	3545001
- Dock II	(2 slot / 2 bay)	3546001
- Port Replicator I (w/ PCMCIA)		66G3510
- Port Replicator II		66G3520
- 1.44 MB diskette		std in newer
- 2.88 MB diskette		66G0108

Options for 755CD:
- PCMCIA Cartridge	84G1301
- NiMH Battery Pack II	85G1513
- Lithium Ion Battery (Pentium only)	85G8561
- Li-Ion Batt Pack II (Pentium only)	29H9329
- CDPD Mobile Module	71G2560
- FDD External Attachment Kit	66G3618
- **Pentium/L2 upgrade** (DX4 mod)	**29H8755**

FEATURES OF 755CD MODELS
Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded
    indention
Personalization screen at startup
International Warranty Service
**24 hour / 7 day telephone, bulletin
    board, fax, electronic, and Internet
    (http:\\www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
❏ = Upgradeable; ○ = Removable; ✂ = Withdrawn from marketing

IBM ThinkPad 755CDV - withdrawn

IBM® ThinkPad®:	✂ **755CDV** TFT color - projector LCD - DX4	✂ **755CDV** TFT color - projector LCD - Pentium	**Same features as ThinkPad 755CD except includes:**
Processor type	**IntelDX4™ 100/33 MHz**	**Pentium® 75/50 MHz**	⇨ **Overhead projector LCD**
L2 cache	None	256 KB write-through / 12ns	⇨ **Supports optional lithium ion battery**
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem	⇨ **Mind Path™ Remote Control IR55 F/X**

Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Supports PCMCIA Cartridge in diskette bay
Removable CD-ROM	**5.25" CD-ROM ○ / double speed / multi-session and XA / front loaded**

Integrated Mwave™ DSP provides:

① **Data modem function**
- V.22bis (2400 bps)
- V.32 (9600 bps)
- V.32bis (14.4 Kbps)

② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)

③ **Audio function**
- Stereo waveform record and playback
- Qsound™ support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster™ support; Text to speech

④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone

⇨ **Software upgradeable** (to 28.8 & DSVD)

Price				
Type - model / part	9545-ABJ	9545-ABK	9545--GBK	9545-GBL
Removable disk - size	**540 MB** / 14 ms	**810 MB** / 14	**810 MB** / 14 ms	**1.2 GB** / 12ms
Avail / withdrawn date	June 95 / Jun 96	Jun95 / Jun96	Sept 95 / Oct 96	Sept 95 / Oct 96

Display - type	**VGA color** / 640 x 480 **/ 65,536 simultaneous colors**
Display - techology	**TFT - active matrix**
Display - diagonal size	10.4 inch / 100 / 1 contrast ratio
Display - projector	**Overhead projector LCD by removing back (includes Stand and Strap)**

Graphics - controller	WD90C24A2 Rev D with 1 MB DRAM
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

PREINSTALLED APPLICATIONS

Memory - std / max	8 MB / 40 MB 70 ns / parity non-parity
Mem - sockets empty	1 socket / 5 volt
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter

Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.

- IBM DOS 7.0   *SelectaSystem™*
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo
- Online Users Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for Global® network; 2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™; 11. Taxi™
12. AlphaNet™ FollowFax™
13. REPRINT™; 14. COMPEL™ PE
15. TalkWorks™; 16. Reuters℠ Money® Net
17. Asymetrix® Digital Video Producer™
18. Mind Path™ Presentation F/X Pro
19. Asymetrix 3D F/X
20. CD-ROM Catalog/Sampler

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	Yes (legs pop out) **Includes Mind**
Mouse/pointing	**TrackPoint III™** **Path Remote**
Ext keyboard support	Yes (with option cable) **Control IR55 F/X**

Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)
Color	Black
Weight (with battery)	7.45 pounds

The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.

Battery - type	Nickel hydride (NiMH) / smart	Nickel hydride (NiMH) / smart
Battery - life	3 to 9 hours Supports opt	2.5 to 8 hours Supports opt
Charge time - on / off	1.7 hrs / 1.2 hrs Lithium ion	1.7 hrs / 1.2 hrs Lithium ion

To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions

Architecture	AT bus (ISA)	Easy-Setup is entered by holding F1 when turning on.
Docking Station	Dock I and II	
Port replicator	Port Replicator I and II	
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**	
Serial / parallel ports	One 9 pin; 16550A / One (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot	

Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory
Exceeds MPC2 standard

Video function (below)	**Daughtercard with video acceleration, composite in/out, game port**
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP**
Audio support	**16 bit audio chip on planar with Mwave DSP** **Internal stereo speakers .5w (w/ dial volume control) and int microphone**
Audio in/out jacks	Input jack / output jack
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IRDA compatible / up to 1.15 Mbps**

Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ Microsaver cable lock) / PCMCIA card lock

Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all appls listed to right:
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Enhanced Video Card in 755CDV provides:

- **Acceleration** of 'Video for Windows™ motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.
- **Mini game port** for MIDI or joystick (includes MIDI/joystick cable)
- Includes a video in and video out port (includes two video in/out cables)
- Use software called Digital Video Producer™

Compatible in all ThinkPad 360 family, 750 family, 755 family:
- Disks: 170 MB IDE   66G2847/9
         250 MB IDE   84G2391
         340 MB IDE   66G2849
         540 MB IDE   84G2150
         810 MB IDE   84G8250
         1.2 GB IDE   85G8562
- Dock I   (1 slot / 1 bay)   3545001
- Dock II   (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II   66G3520
- 2.88 MB diskette   66G0108

Options for 755CDV:
- NiMH Battery Pack II   85G1513
- Lithium Ion battery   85G8561
- Li-Ion Batt Pack II (Pentium only) 29H9329
- CDPD Mobile Module   71G2560
- PCMCIA Cartridge   84G1301
- **Pentium/L2 upgrade** (DX4 mod) **29H8755**
- Cooling Fan Kit (for overhead) 29H8000

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.

FEATURES OF 755CDV MODELS

Discharge battery via mouse click
Battery life indicator
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in molded indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 760L - withdrawn

IBM® ThinkPad®:	✂ 760L 10.4" TFT color			ThinkPad 760L strengths:
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory			➪ **Automated tilt up keyboard / palm rest space**
Processor speed	**90/60 MHz**			➪ **UltraBay: 2nd disk, 2nd battery, diskette**
Processor upgrade	to Pentium 120/60 MHz			➪ **Two high speed infrared ports**
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered			➪ **Integrated audio / speakers / microphone**
Removable diskette	Internal 3.5" 1.44 MB ◯ / no rear connector for diskette drive			➪ **16.7 million simultaneous color LCD**
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM			

Differences between 760L and 760LD:

		Pallette of 24 systems		**760L**	**760LD**
Price					
Type - model	9547-U01	9547-U0A	9547-U0R	No internal CD-ROM	Removable CD-ROM
Preload (see side)	SelectaSys	Windows 95	Blank	1.74" height	1.96" height
Part number	9547U01	9547U0A	9547U0R	6.5 lbs / 169 cu in	7.11 lbs / 190 cu in
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96	Supports 12 mm disks	Supports 1.2 GB disks
Remv disk - size / ms	**810 MB** / 13 ms / EIDE◯			2.16 GB max capacity	2.4 GB max capacity
				No ext FDD port	Ext. FDD port on back
Display - diagonal size	**10.4 inch**			Price	Price
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**				
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio				

Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD/CRT / 180 degree tilt

Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page	**SELECTASYSTEM PRELOAD**
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	- IBM DOS 7.0
Keyboard slope	**Automted tilt up keyboard** (5.5 degrees)	- Windows 3.11
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**	- OS/2 Warp 3.0 (dual boot) w/ selected
Ext keyboard support	Yes (with option cable)	BonusPak

Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery

- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

Dimensions (cubic in)	11.7 x 8.3 x 1.74" (169)
Weight (with battery)	6.51 pounds
Battery - type	NiMH / intelligent / *Optional Lithium Ion*
Battery - life (1 batt)	3 hours
Battery - life (2 batt)	6 hours
Charge time - on / off	1.7 hrs / 1.2 hrs

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows
9. NetFinity for Windows 95

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot

Motion video accel	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Telephone	None

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

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The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD
   (option)

Easy-Setup is entered by holding F1 when turning on.

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760L is 2.16 GB with two 1.08 GB disks.

Compatible in ThinkPad 760 family:
- Disks: (360/750/755 IDE disks not supported)
   720 MB HDD II EIDE   12.5 mm 29H9383
   810 MB HDD II EIDE   12.5 mm 29H9313
   1.08 GB HDD II EIDE   12.5 mm 29H9319
   1.2 GB HDD II (LD/CD only)17 mm 29H9325
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA)   66G3510
- Port Replicator II   66G3520
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge   84G1301
- **760 NiMH Battery (black)**   **41H9720**
- **Li-Ion Battery Pack II (gray)** **29H9329**
- Travel Quick Charger   85G1522
- FDD External Attachment Kit   66G3618
- **Pentium 120/60 MHz upgrade**   **29H9340**
- Car Battery Adapter   49G2167
- ThinkPad AC Adapter (50 watts)   66G3541
- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
- ThinkPad headset   85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM ThinkPad 760LD - withdrawn

IBM® ThinkPad®:	✄ **760LD** 10.4" TFT color - CD-ROM
Processor type	**Pentium® 90/60 MHz** (P54LM) / 64 bit to L2 cache / 32 bit to memory
Processor upgrade	to Pentium 120/60 MHz
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally to FDD attach port
Removable CD-ROM	**5.25" CD-ROM◯ / 4 x speed / multi-session / XA / play with eject button** **EIDE / PIO Mode 3 (ATAPI)**

ThinkPad 760LD strengths:

- ⇨ **Removable, 4 x speed, 5.25" CD-ROM**
- ⇨ **Automated tilt up keyboard / palm rest space**
- ⇨ **UltraBay: 2nd disk, 2nd battery, diskette**
- ⇨ **Two high speed infrared ports**
- ⇨ **Integrated audio / speakers / microphone**
- ⇨ **16.7 million simultaneous color LCD**

Price			Pallete of 24 systems
Type - model (part)	9547-U31 (9547U31)	9547-U3A (9547U3A)	9547-U3R (9547U3R)
Preload (see side)	SelectaSystem	Windows 95	Blank
Avail / withdrawn date	Feb 96 / Oct 96	Feb 96 / Oct 96	Feb 96 / Oct 96
Remv disk - size / ms	**810 MB** / 12 ms / EIDE ◯ / PIO Mode 4		

Display - diagonal size	**10.4 inch**
Display - type	**VGA color / 640 x 480 / 16.7 million simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)
Weight (with CD-ROM)	7.11 pounds

Liftable (pop-up) keyboard **to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Exceeds MPC2 standard

Battery - type	NiMH / intelligent	*Optional*
Battery - life (1 batt)	3 hours	*Lithium Ion*
Battery - life (2 batt)	6 hours	
Charge time - on / off	1.7 hrs / 1.2 hrs	
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics)	
Docking Station	Dock I and II	
Port replicator	Port Replicator I and II	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal adapter (40 watts) / Selectable boot	
Motion video accel	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688** **Int stereo speakers / .5 watt / slide volume control / internal microphone**	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock	
Preinstalled software	Choice of two preload configurations (listed to right)	
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	

The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ std CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/ CDPD (option)

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Video For Windows™ 1.1 Runtime
5. Puma TranXit™
6. CompuServ for Windows
7. NetFinity for Windows and OS/2

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™
4. Puma TranXit™
5. Compuserv for Windows
9. NetFinity for Windows 95

Easy-Setup is entered by holding F1 when turning on.

Differences between 760L/LD and 760C/CD:

760L/LD	**760C/CD**
Pentium 90/60 MHz	Pentium 120/60 or 90/60
All 10.4" TFT	10.4" or 12.1" TFT
VGA 640 x 480 LCD	SVGA 800 x 600 LCD
16.7 mil colors on LCD	65,536 colors on LCD
None	760CD: Enh. Vid Card
None	760CD: MPEG decoder
None	Mwave DSP
None	28.8 modem / DSVD
18 voice FM synthesis	32 voice wavetable syn.
NiMH battery	Li-Ion battery
Type is 9547	Type is 9546

All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760LD is 2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760 family:
- Disks: (360/750/755 IDE disks not supported)
  - 720 MB HDD II EIDE   12.5 mm 29H9383
  - 810 MB HDD II EIDE   12.5 mm 29H9313
  - 1.08 GB HDD II EIDE   12.5 mm 29H9319
  - 1.2 GB HDD II (LD/CD only) 17 mm 29H9325
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA)   66G3510
- Port Replicator II   66G3520
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge   84G1301
- **760 NiMH Battery (black)**   **41H9720**
- **Li-Ion Battery Pack II (gray)**   **29H9329**
- Travel Quick Charger   85G1522
- FDD External Attachment Kit   66G3618
- **Pentium 120/60 MHz upgrade**   **29H9340**
- Car Battery Adapter   49G2167
- ThinkPad AC Adapter (50 watts)   66G3541
- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
- ThinkPad headset   85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM ThinkPad 760C - withdrawn

IBM® ThinkPad®:	✂ **760C** 12.1" or 10.4" TFT color
Processor type	**Pentium®** (P54LM) / 64 bit to L2 cache / 32 bit to memory
Processor speed	**90/60 or 120/60 MHz** (see below)
Processor upgrade	to Pentium 120/60 MHz
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	Internal 3.5" 1.44 MB ○ (in UltraBay)
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM

ThinkPad 760C strengths:

- ➪ **Tilt up keyboard and palm rest space**
- ➪ **Largest notebook display models -- 12.1 inch**
- ➪ **UltraBay: 2nd disk, 2nd battery, diskette**
- ➪ **Integrated 28.8 Kbps modem, audio, telephony**
- ➪ **Two high speed infrared ports**

Price Type - model **all 9546**	U21	U2A	U22	U2B	U27	U2H	U28	U2J
Preload (see side)	SelectaSys	Win 95	SelectaSys	Win 95	SelectaSys	Win 95	SelctaSys	Win 95
Pentium speed	**90/60 MHz**		**90/60 MHz**		**120/60 MHz**		**120/60 MHz**	
Remv disk - size / ms	**720 MB** / 13 ms / EIDE○		**720 MB** / 13 ms / EIDE○		**720 MB** / 13 ms / EIDE○		**1.08 GB** / 13 ms / EIDE○	
Avail / withdrawn date	Oct 1995 / Oct 1996		Oct 1995 / Oct 1996		Nov 1995 / Oct 1996		Jan 1996 / Oct 1996	

Display - diagonal size	**12.1 inch**	**10.4 inch**	**12.1 inch**	**12.1 inch**
Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**			
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio			

Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt

Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	*Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery*
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	
Pointing / palm rest	**TrackPoint III™ / integrated palm rest**	
Ext keyboard support	Yes (with option cable)	

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) with selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features Program
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™ 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2
- Complimentary Applications CD-ROM
- Lotus SmartSuite 4.0 CD-ROM

Dimensions (cubic in)	*10.4" models:* 11.7 x 8.3 x 1.74" (169)	*12.1" models:* 11.7 x 8.3 x 1.92" (186)
Weight (with battery)	*10.4" models:* 6.1 pounds	*12.1" models:* 6.8 pounds
Battery - type	*10.4" models:* Lithium Ion / intelligent	*12.1" models:* Lithium Ion / intelligent
Battery - life (1 batt)	*10.4" models:* 3.8 hours *Opt*	*12.1" models:* 3.5 hours *Opt*
Battery - life (2 batt)	*10.4" models:* 7.6 hours *NiMH*	*12.1" models:* 7 hours *NiMH*
Charge time - on / off	*10.4" models:* 2 to 3 hrs / 1.5 to 2.5 hrs	*12.1" models:* 2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion) VL-Bus 2.0 / 32 bit / 33 MHz (graphics)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot

Motion video accel	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP** **Int stereo speakers / .5 watt / slide volume control / internal microphone**
Audio in/out jacks	Input jack (3.5 mm) / output jack (3.5 mm)
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Telephone	Telephone / answering machine / full duplex speakerphone

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition
- Lotus SmartSuite 96 CD-ROM

Preinstalled software	Choice of two preloaded configurations (listed to right)
Warranty	**3 year -** ThinkPad EasyServ only (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760C is 2.16 GB with two 1.08 GB disks.

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760 family:
- Disks: (360/750/755 IDE disks not supported)
  - 720 MB HDD II EIDE   12.5 mm 29H9383
  - 1.08 GB HDD II EIDE   12.5 mm 29H9319
  - 1.2 GB HDD II (CD only)   17 mm   29H9325
- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- Port Replicator I (w/ PCMCIA)   66G3510
- Port Replicator II   66G3520
- 1.44 MB diskette   std in newer
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge   84G1301
- **760 NiMH Battery (black)**   **41H9720**
- **Li-Ion Battery Pack II (gray)**   **29H9329**
- Travel Quick Charger   85G1522
- FDD External Attachment Kit   66G3618
- **Pentium 120/60 MHz upgrade**   **29H9340**
- Car Battery Adapter   49G2167
- ThinkPad AC Adapter (50 watts)   66G3541
- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
- ThinkPad headset   85G1301

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
LCD of remaining battery life
LCD icons for two batteries
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 760CD - withdrawn

IBM® ThinkPad®:	✂ **760CD**
	12.1" TFT color - CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 90/60 or 120/60** (P54LM) / 64 bit to L2 cache / 32 bit to mem
Processor upgrade	to Pentium 120/60 MHz from 90/60
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally
Removable CD-ROM	**5.25" CD-ROM◯ / 4 x speed / multi-session / XA / play with eject button**
	EIDE / PIO Mode 3 (ATAPI)

ThinkPad 760CD strengths over 760C:

- ➪ **Mobile multimedia - MPC2 compliant**
- ➪ **Removable, 4 x speed, 5.25" CD-ROM**
- ➪ **Video card (acceleration, composite in/out)**
- ➪ **Joystick/MIDI port**
- ➪ **MPEG-1 and MPEG-2 HHR decoder**

Price				
Type - model	9546-U11	9546-U1A	9546-U13	9546-U1C
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95
Pentium speed	90/60 Mhz	90/60 MHz	120/60 MHz	120/60 MHz
Avail / withdrawn date	Oct 95 / Oct 96	Oct 95 / Oct 96	Jan 96 / Oct 96	Jan 96 / Oct 96
Remv disk - size / ms	**1.2 GB** / 12 ms / EIDE ◯ / supports two internal disks			

Display - diagonal size	**12.1 inch**
Display - type	**SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Memory - std / max	**8 MB** / 64 MB 70 ns / non-parity / 3.3 volt / fast page
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.47 pounds
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	3.1 hours *NiMH*
Battery - life (2 batt)	6.2 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion, MPEG)
	VL-Bus 2.0 / 32 bit / 33 Mhz (graphics, ACSII)
Docking Station	Dock I and II
Port replicator	Port Replicator I and II
PCMCIA 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC Adapter 3 prong (35 watts) / Selectable boot
Motion video (below)	**Video acceleration / composite and S-Video in/out / game port** (ASCII V7325)
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	Mwave MDSP2780 DSP with modem, fax, audio, telephony function
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.0
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for
	keyboard and DIMMS (requires Kensington) / PC Card lock
Preinstalled software	Choice of two preload configurations (listed to right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/
   CDPD (option)

Liftable (pop-up) keyboard **to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function**
   - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
   - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
   - Stereo waveform record and playback
   - Qsound support (3-D effect)
   - 32 voice MIDI wave table synthesizer
   - SoundBlaster™ support / text to speech
   - MPEG audio decode
④ **Telephone function**
   - Full telephone (can use opt headset)
   - Telephone answering machine
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

SELECTASYSTEM PRELOAD

- IBM DOS 7.0
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak
- IBM PC Card Director™ 3.0
- Online Users Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Video For Windows™ 1.1 Runtime
8. Puma TranXit™; 9. COMPEL™ PE
10. Mind Path Presentation F/X Pro
11. Internet for Windows
12. Compuserv for Win; 13. WIN32s Runtime
14. NetFinity for Windows and OS/2
15. Asymetrix® Digital Video Producer™
- Catalog/Sampler CD-ROM
- Complimentary Applications CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSutie 4.0 CD-ROM

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features; Diskette Factory
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™
3. Lotus ScreenCam™
4. Triton CoSession™ Host; 5. PRODIGY®
6. SofNet FaxWorks™ Voice™
7. Puma TranXit™
8. Compuserv for Windows
9. Mind Path Presentation F/X Pro
10. COMPEL Personal Edition
11. Asymetrix® Digital Video Producer™
- Catalog/Sampler CD-ROM
- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM

FEATURES OF 760 MODELS

Product Map; **LCD indicator panel**
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

Enhanced Video Card in 760CD provides:	Compatible in ThinkPad 760 family:
- **Acceleration** of 'Video for Windows™ and MPEG motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degredation.	- Disks: (360/750/755 IDE disks not supported)
	720 MB HDD II EIDE 12.5 mm 29H9383
	1.08 GB HDD II EIDE 12.5 mm 29H9319
	1.2 GB HDD II (CD only) 17 mm 29H9325
- **Composite in** and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk).	- Second HDD Adapter 29H9333
	- Dock I (1 slot / 1 bay) 3545001
	- Dock II (2 slot / 2 bay) 3546001
	- Port Replicator I (w/ PCMCIA) 66G3510
	- Port Replicator II 66G3520
	- 1.44 MB diskette std in newer
- **Composite out** and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on VCR the screen of 760CD.	- 2.88 MB diskette 66G0108
	- PCMCIA Cartridge 84G1301
	- **760 NiMH Battery (black)** **41H9720**
	- **Li-Ion Battery Pack II (gray)** **29H9329**
- **Mini game port** for MIDI or joystick	- Travel Quick Charger 85G1522
- Includes a video in and video out ports (includes two video in/out cables)	- FDD External Attachment Kit 66G3618
	- **Pentium 120/60 MHz upgrade** **29H9340**
- Use software called Digital Video Producer™	- Car Battery Adapter 49G2167
	- 8 MB SO DIMM 3.3v non-parity EDO 92G7315
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles** (at 800 x 600)	- 16 MB SO DIMM 3.3v non-parity EDO 92G7316
	- ThinkPad TrackPoint III Caps 39H1354
	- ThinkPad headset 85G1301

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable; ✂ = Withdrawn from marketing

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No warranties are expressed or implied in this summary
(760CD) Compiled by Roger Dodson, IBM. October 1996

IBM® ThinkPad®: ✂ **760EL**
11.3" DSTN color or 12.1" TFT color - thick

Processor type	**Pentium® 100/66, 120/60, or 133/66** / 64 bit to L2 cache / 64 bit to mem
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache
L2 cache	None (not separately upgradeable)
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, or 8 x CD-ROM into UltraBay**

Price

				Pallette of 24 systems					Pallette 24 systems
Type - model	9547-U6G	9547-U6F	9547-U4F	9547-U6R	U4S	U4H	U48		9547-U4R
Preload (see side)	**Win 95**	**Win 95**	**Win 95**	**Blank**(none)		**Win 95**	**OS/2 Connect**		**Blank** (none)
Available date	May 1996	May 1996	May 1996	May 1996		May 1996	July 1996		May 1996
Pentium speed	**100/66 MHz**	**120/60 MHz**	**120/60 MHz**	**120/60 MHz**		**133/66 MHz**			**133/66 MHz**
Remv disk - size / ms	**810 MB** / 13 ms ○		**1.08 GB** / 13 ms ○	**810 MB**	**1.08 GB**	**1.08 GB** / 13 ms ○			**1.08 GB** / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks								

Display - size and type	**11.3 inch DSTN**	**12.1 inch TFT**	**11.3 DSTN**	**12.1 TFT**	**12.1 TFT**	**12.1 inch TFT**

Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600**	**12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors**
	256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	Black Matrix TFT - active matrix / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	810 MB = DMA Mode 2 or PIO Mode 4
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors	1.08 GB = DMA Mode 2 or PIO Mode 4
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt	1.2 GB = DMA Mode 1 or PIO Mode 3

Memory - std / max	**8 MB** / 72 MB or 104 MB	**8 MB** / 72 or 104	**8 MB** / 72 MB or 104 MB	**16 MB** / 80 MB or 104 MB	**16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB				

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest / ext keyboard support (with option cable)

Dimensions	*11.3" models:* 11.7 x 8.3 x 1.98" (192)	*12.1" models:* 11.7 x 8.3 x 2.14" (208)
Weight	*11.3" models:* 6.7 pounds (3.04 kg)	*12.1" models:* 7.03 pounds (3.19 kg)

Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*	
Battery - life (1 batt)	*11.3" models:* 3.1 hours	*12.1" models:* 3.3 hours
Battery - life (2 batt)	*11.3" models:* 6.2 hours	*12.1" modles:* 6.6 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II **SelectaDock I and II**
Port replicator	Port Replicator I and II **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None	
MPEG decoder	None	***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**	

OS/2 WARP CONNECT PRELOAD

- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications
- Online User's Guide
- ThinkPad Features Program
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. Puma TranXit™
3. NetFinity for OS/2
4. Prodigy
- Lotus SmartSuite 4.0 (entitled to SSuite 96)

BLANK PRELOAD

- License for SmartSuite

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

ThinkPad 760E supported disks:

- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5 mm 29H9319
- 1.2 GB (1.96" or higher models)   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96" in higher models)   69H8414
- 3.0 GB (1.96" + models)   17 mm 45H8789

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760EL supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

Compatible in ThinkPad 760EL family:

- Second HDD Adapter   29H9333
- Dock I (1 slot / 1 bay)   3545001
- Dock II (2 slot / 2 bay)   3546001
- IDE Conversion Card (for Dock II) 46H5994
- **SelectaDock I**   **3547001**
- **SelectaDock II**   **3547002**
- Port Replicator I (w/ PCMCIA slots) 66G3510
- Port Replicator II   66G3520
- **SelectaDock Base Model I**   **39H7405**
- 2.88 MB diskette   66G0108
- PCMCIA Cartridge (one Type III) 84G1301
- FDD External Attachment Kit   66G3618
- Pentium 133/66 MHz/L2 upgrade 46H5991
- 35 watt AC Adapter (slim, 4 pin) 76H0119
- **4 x CD-ROM** (UltraBay)   **39H7413**
- **6 x CD-ROM** (UltraBay)   **85G1957**
- **8 x CD-ROM** (UltraBay)   **45H8786**
- **8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342**

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®:	✂ **760EL** 11.3" SVGA DSTN or 12.1" SVGA TFT - thick			
Processor type	**Pentium® 120/60 or 133/66** / 64 bit to L2 cache / 64 bit to memory			
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache			
L2 cache	None (not separately upgradeable) | **256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst			
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port			
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)			
Removable CD-ROM	None / **can upgrade to optional CD-ROM into UltraBay**			

Price			Pallette of 24 systems	
Type - model	**9547-U6H**	**9547-U4G**	**9547-U4T**	**9547-U4K**
Preload (see side)	**Windows 95**	**Windows 95**	**Blank** (none)	**Windows NT 4.0**
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997	October 1996 / April 1997	Nov 1996 / July 1997
Pentium speed	**120/66 MHz**	**133/66 MHz**	**133/66 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.35 GB** / 13 ms ○	**2.1 GB** / 13 ms ○	**2.1 GB** / 13 ms ○	**2.1 GB** / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			
Display - size and type	**11.3 inch DSTN**	**12.1 inch TFT**	**12.1 inch TFT**	**12.1 inch TFT**
Display - techology	**11.3" SVGA color / 640 x 480 or 800 x 600** 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		**12.1" SVGA color / 640 x 480, 800 x 600 / 65,536 colors** Black Matrix TFT - active matrix / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA / 1 MB EDO DRAM / 70 ns		Trident™ CYBER9385/64 bit SVGA/1 MB EDO DRAM/70 ns	
Graph - arch/data path	PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors		PCI 2.1 / external SVGA to 1024 x 768 w/ 256 colors	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	**8 MB** / 72 MB or 104 MB	**16 MB** / 72 MB or 104 MB	**16 MB** / 80 MB or 104 MB	**32 MB**/80 MB or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for 2 JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB			1 socket available

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	**WINDOWS 95 PRELOAD**
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	- Microsoft Windows 95
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)	- Online User's Guide
Dimensions	*11.3" models:* 11.7 x 8.3 x 1.98" (192) *12.1" models:* 11.7 x 8.3 x 2.0" (194)	- ThinkPad Features - PC Card Director 4.0
Weight	*11.3" models:* 6.7 pounds (3.04 kg) *12.1" models:* 6.41 pounds (2.91 kg)	- Diskette Factory
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*	1. Triton CoSession™ Host
Battery - life (1 batt)	*11.3" models:* 2.7 hours *12.1" models:* 3.0 hours	2. Puma TranXit™
Battery - life (2 batt)	*11.3" models:* 5.4 hours *12.1" modles:* 6.0 hours	3. Compuserv for Windows
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	4. NetFinity for Windows 95 - Lotus SmartSuite 96 CD-ROM
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)	**WINDOWS NT 4.0 PRELOAD**
Docking Station	Dock I and II / **SelectaDock II and III**	- Microsoft Windows NT 4.0 Workstation
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**	with utilities and device drivers
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible	NT model with 32 MB consists of 8 MB
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	on planar, 8 MB in memory carrier, and
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	16 MB via a SO-DIMM. One SO-DIMM socket is available.
Video in/out	None	
MPEG decoder	None	*Liftable (pop-up) keyboard* to access and
DSP function	None	remove diskette drive, 1st/2nd disk,
Data/fax modem	None	1st/2nd battery, and other UltraBay options
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	**BLANK PRELOAD**
	Int stereo speakers / .5 watt / slide volume control / internal microphone	- License for SmartSuite
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	ThinkPad 760EL supported batteries:
Telephone	None	- 760 NiMH Battery (black) 41H9720
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**	- Li-Ion Battery Pack II (gray) 29H9329 - Travel Quick Charger 85G1522
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate	- Car Battery Adapter 49G2167 ThinkPad 760E supported disks:
Preinstalled software	Windows 95 with applications (listed on right)	- (360/750/755 IDE disks not supported)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	- 720 MB HDD II EIDE 12.5 mm 29H9383

The left bay (UltraBay™) supports:	Compatible in ThinkPad 760EL family:		- 810 MB HDD II EIDE 12.5 mm 29H9313
① 2nd disk (requires Second HDD Adapter)	- Second HDD Adapter	29H9333	- 1.08 GB HDD II EIDE 12.5 mm 29H9319
② 2nd battery	- Dock I (1 slot / 1 bay)	3545001	- 1.2 GB (1.96"+ models) 17 mm 29H9325
③ std diskette drive	- Dock II (2 slot / 2 bay)	3546001	- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412
④ 2.88 MB diskette drive (option)	- IDE Conversion Card (for Dock II)	46H5994	- 2.1 GB (1.96"+ models) 17 mm 69H8414
⑤ PCMCIA Cartridge (option)	- **SelectaDock I**	**3547001**	- 3.0 GB (1.96"+ models) 17 mm 45H8789
⑥ IBM Wireless Modem for ARDIS (option)	- **SelectaDock II**	**3547002**	
⑦ IBM Wireless Modem for Cellular/CDPD	- **SelectaDock III**	**3547003**	**FEATURES OF 760 MODELS**
(option)	- Port Replicator I (w/ PCMCIA slots)	66G3510	Setup Pointer (single page)
	- Port Replicator II	66G3520	**LCD indicator panel**
Maximum internal disk capacity on 760EL is	- **SelectaDock Base Model I**	**39H7405**	Plug and Play 1.0a
4.2 GB with two 2.1 GB disks	- 2.88 MB diskette	66G0108	Discharge battery via mouse click
	- PCMCIA Cartridge (one Type III)	84G1301	Non-disruptive battery exchange
Easy-Setup is entered by holding F1 when	- FDD External Attachment Kit	66G3618	Standby, suspend, safe suspend,and
turning on.	- Pentium 133/66 MHz/L2 upgrade	46H5991	hibernation modes
	- 35 watt AC Adapter (slim, 4 pin)	76H0119	US EPA Energy Star compliant
810 MB = DMA Mode 2 or PIO Mode 4	- **4 x CD-ROM** (UltraBay)	**39H7413**	Personalized nameplate in indention
1.08 GB = DMA Mode 2 or PIO Mode 4	- **6 x CD-ROM** (UltraBay)	**85G1957**	Personalization screen at startup
1.2 GB = DMA Mode 1 or PIO Mode 3	- **8 x CD-ROM** (UltraBay)	**45H8786**	**International Warranty Service**
1.35 GB = DMA Mode 2 or PIO Mode 4	- **8 - 20 x CD-ROM** (UltraBay)	**00K7903**	**24 hour / 7 day telephone, bulletin**
2.1 GB = DMA Mode 2 or PIO Mode 4	- 8 MB SO DIMM 3.3v NP EDO 64 bit	92G7340	**board, fax, electronic, and Internet**
	- 16 MB SO DIMM 3.3v NP EDO 64 bit	92G7341	**(http://www.pc.ibm.com) support**
Maximum is 80 MB or 104 MB on all	- 32 MB SO DIMM 3.3v NP EDO 64 bit	92G7342	**IBM and dealer warranty/service**
models, but 104 MB requires a ThinkPad			**Online Housecall (remote diagnostics)**
Proven vendor option.			

IBM® ThinkPad®:	✂ **760ELD**	**WINDOWS 95 PRELOAD**
	12.1" TFT color - CD-ROM	

Processor type	**Pentium® 100/66** (P54LM) / 64 bit to L2 cache / 64 bit to memory	**WINDOWS 95 PRELOAD**
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache	- Microsoft Windows 95
L2 cache	None (not separately upgradeable)	- Online User's Guide
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port	- ThinkPad Features
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	- PC Card Director 4.0
Removable CD-ROM	**5.25" CD-ROM ◯ / 4 x speed / multi-session / XA / play with eject button**	- Diskette Factory
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices	1. Triton CoSession™ Host;

Price		2. PRODIGY®
Type - model	9547-U3F	3. SofNet FaxWorks™ Fax
Preload (see side)	**Windows 95**	4. Puma TranXit™
Avail / withdrawn date	May 1996 / 1997	5. Compuserv for Windows
Remv disk - size / ms	**810 MB** / 13 ms ◯ / DMA Mode 2 or PIO Mode 4	6. NetFinity for Windows 95
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks	- Lotus SmartSuite 96 CD-ROM

Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors

Memory - std / max	**8 MB** / 72 MB 70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ option cable)

Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.28 pounds (3.30 kg)

Battery - type	Lithium Ion / intelligent *optional*	***Liftable (pop-up) keyboard** to access
Battery - life (1 batt)	3.2 hours *NiMH*	**and remove CD-ROM, diskette drive,**
Battery - life (2 batt)	6.4 hours	**1st/2nd disk, and 1st/2nd battery**
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I, II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Easy-Setup is entered by holding F1 when turning on.

810 MB   = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB   = DMA Mode 1 or PIO Mode 3

Video in/out	None
MPEG decoder	None
DSP function	None
Data/fax modem	None
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	None
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**

ThinkPad 760 ELD supported disks:
- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5 mm 29H9319
- 1.2 GB (1.96"+ models) 17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96"+ models) 17 mm   69H8414
- 3.0 GB (1.96"+ models) 17 mm   45H8789
- 5.1 GB (1.96" or higher models) 00K7902

Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

FEATURES OF 760 MODELS

The left bay (UltraBay™) supports:
① 2nd disk
② 2nd battery
③ std diskette drive
④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/
   CDPD (option)

All 760 systems support the NiMH or Li-Ion
battery in both battery bay and UltraBay.

Maximum internal disk capacity on 760ELD is
2.4 GB with two 1.2 GB disks.

Compatible in ThinkPad 760ELD family:

-	Second HDD Adapter	29H9333
-	Dock I (1 slot / 1 bay)	3545001
-	Dock II (2 slot / 2 bay)	3546001
-	IDE Conversion Card (for Dock I/II)	46H5994
-	**SelectaDock I**	**3547001**
-	Port Replicator I (w/ PCMCIA slots)	66G3510
-	Port Replicator II	66G3520
-	**SelectaDock Base Model I**	**39H7405**
-	2.88 MB diskette drive	66G0108
-	PCMCIA Cartridge (one Type III)	84G1301
-	FDD External Attachment Kit	66G3618
-	Pentium 133/66 MHz/L2 upgrade	46H5991
-	**4 x CD-ROM** (UltraBay)	**39H7413**
-	**6 x CD-ROM** (UltraBay)	**85G1954**
-	**8 x CD-ROM** (UltraBay)	**45H8786**
-	**8-20 x CD-ROM** (UltraBay)	**00K7903**
-	**8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
-	**16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
-	**32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
   hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM® ThinkPad®:	✂ **760E**	✂ **760E**
	12.1" SVGA TFT - thick	12.1" SVGA TFT - thin

Processor type	**Pentium® 120/60 or 133/66** (P54LM) / 64 bit to L2 cache / 64 bit to mem
Processor upgrade	to Pentium 133/66 MHz from 120/60
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / in UltraBay
External FDD port	External FDD port / None
Removable CD-ROM	None / **upgrade CD-ROM** / None / can not install a CD-ROM (too thin)

Key differences between 760E and 760ED:

	760E	**760ED**
	No std CD-ROM	Standard CD-ROM
	No video in/out	Video in/out and cable
	No joystick/MIDI port	joystick/MIDI port
	No MPEG decoder	MPEG decoder
	Lighter	Heavier
	Price	Price

Price		Pallet of 24		
Type - model	**9546-U3B**	**9546-U3L**	**9546-U4B**	**9546-U4A**
Preload (see side)	**Windows 95**	**Blank**	**Windows 95**	**Windows 95**
Avail / withdrawn date	May 1996 / Jan 1997		May 1996 / Jan 1997	May 1996 / Jan 1997
Pentium speed	**120/60 MHz**		**120/60 MHz**	**133/66 MHz**
Remv disk - size / ms	**1.2 GB** / 12 ms ○		**810 MB** / 13 ms ○	**1.08 GB** / 13 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks			

Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Fax
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Memory - std / max	**8 MB** / 72 MB or 104 MB / **8 MB** / 72 MB or 104 MB / **16 MB** / 80 or 104 MB
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB

BLANK PRELOAD

- License for SmartSuite

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest / ext keyboard support (w/ optional cable)

Dimensions	11.7 x 8.3 x 2.14" (208) / 11.7 x 8.3 x 1.92" (186 cubic inches)
Weight	7.06 pounds (3.20 kg) / 6.76 pounds (3.07 kg)

Battery - type	Lithium Ion / intelligent	*optional NiMH*	*Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)*
Battery - life (1 batt)	3.4 hours		
Battery - life (2 batt)	6.8 hours		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3

Memory is upgradeable to 104 MB with a ThinkPad Proven option.

Video in/out	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5mm 29H9319
- 1.2 GB (1.96" or higher models)   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96" or higher models)   69H8414

Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD (option)

Maximum internal disk capacity on 760E is 4.2 GB with two 2.1 GB disks (thick models) or 2.8 GB with two 1.4 GB disks (thin models)

Easy-Setup is entered by holding F1 when turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- Pentium 133/66 MHz/L2 upgrade	46H5991
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (for thick model)	**39H7413**
- **6 x CD-ROM** (for thick model)	**85G1957**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

IBM® ThinkPad®:	✂ **760E**
	12.1" XGA color - thick
Processor type	**Pentium® 150/60** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / in UltraBay
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	None / **can upgrade with optional CD-ROM into UltraBay**
Price	
Type - model	**9546-U9B**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ○
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks (so 4.2 GB max)
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600, or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option)
Memory - features	70 ns / non-parity / 3.3 volt / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (w/ optional cable)
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight	6.41 pounds (2.91 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.6 hours *NiMH*
Battery - life (2 batt)	5.2 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	None
MPEG decoder	None
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps
Security	Power-on password / Hard disk password / Supervisor password /
	Security keyhole / Security latch for keyboard and
	DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)

Key differences between 760E and 760ED:

760E	**760ED**
No std CD-ROM	Standard CD-ROM
No video in/out	Video in/out and cable
No joystick/MIDI port	Joystick/MIDI port
No MPEG decoder	MPEG decoder
Lighter	Heavier
Price	Price

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

810 MB = DMA Mode 2 or PIO Mode 4
1.08 GB = DMA Mode 2 or PIO Mode 4
1.2 GB = DMA Mode 1 or PIO Mode 3
1.35 GB = DMA Mode 2 or PIO Mode 4
2.1 GB = DMA Mode 2 or PIO Mode 4

ThinkPad 760E supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5 mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5 mm 29H9319
- 1.2 GB (1.96"+ models) 17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96"+ models) 17 mm   69H8414
- 3.0 GB (1.96"+ models) 17 mm   45H8789
- 5.1 GB (1.96"+ models) 17 mm   00K7902

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
   hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
**24 hour / 7 day telephone, bulletin
   board, fax, electronic, and Internet
   (http://www.pc.ibm.com) support**
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ std diskette drive
④ 2.88 MB diskette drive (option)
⑤ PCMCIA Cartridge (option)
⑥ IBM Wireless Modem for ARDIS (option)
⑦ IBM Wireless Modem for Cellular/CDPD
   (option)

Maximum internal disk capacity on 760E is
10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when
turning on.

Integrated Mwave™ DSP provides:
① **Data modem function** (to 28.8 Kbps)
② **Fax modem function** (to 14.4 Kbps)
③ **Audio function** (wave table synthesis)
④ **Telephone function**
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice and Data**

Compatible in ThinkPad 760E family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8 - 20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

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No warranties are expressed or implied in this summary
(760E96) Compiled by Roger Dodson, IBM. October 1997

IBM ThinkPad 760ED (SVGA) - withdrawn

IBM® ThinkPad®:	✂ 760ED
	12.1" SVGA TFT- 4 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)
Removable CD-ROM	**5.25" CD-ROM ◯ / 4 x speed /** multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model	**9546-U3A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**1.2 GB** / 12 ms ◯ / DMA Mode 1 or PIO Mode 3
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks
Avail / withdrawn date	May 1996 / January 1997
Display - size and type	**12.1 inch SVGA color / 640 x 480 or 800 x 600 / 262,166 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3v
Memory - upgrade	volt / EDO
	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)
Weight (with CD-ROM)	7.38 pounds (3.35 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.8 hours *NiMH*
Battery - life (2 batt)	5.6 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I and II**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 28.8 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMs (requires Kensington) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/
 CDPD (option)

Liftable (pop-up) keyboard **to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled
- **Plays back MPEG motion videos, CD-I movies, video CDs, and Karaoke MPEG video titles** (at 640 x 480, 800 x 600, or externally at 1024 x 768)

Compatible in ThinkPad 760ED family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad 760ED strengths over 760CD:

- ➡ **Pentium 133/66 MHz** (vs 120/60 MHz)
- ➡ **PCI bus** (vs VL-Bus)
- ➡ **16 MB EDO memory** (vs 8 MB fast page)
- ➡ **64 bit path to memory** (vs 32 bit)
- ➡ **9385 64 bit graphics with 2 MB EDO**
- ➡ **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support / text to speech
  - MPEG audio decode
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host;
2. PRODIGY®
3. SofNet FaxWorks™ Voice™
4. Puma TranXit™
5. Compuserv for Windows
6. NetFinity for Windows 95
7. Asymetrix® Digital Video Producer™
8. MPEG Sampler (CD-ROM)
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760E supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5mm	29H9383
- 810 MB HDD II EIDE	12.5mm	29H9313
- 1.08 GB HDD II EIDE	12.5mm	29H9319
- 1.2 GB (1.96" or higher models)		29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96" or higher models)		69H8414

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and
 hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
◯ = Removable

IBM® ThinkPad®:	✂ **760ED**
	12.1" XGA TFT - 6 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® 133/66** (P54CSLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ○ / 6 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model	**9546-U9A**
Preload (see side)	**Windows 95**
Remv disk - size / ms	**2.1 GB** / 12 ms ○ / DMA Mode 2 or PIO Mode 4
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 4.2 GB
Avail / withdrawn date	October 1996 / October 1997
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / **DCI, DirectDraw, EnDIVE support**
Gaphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**16 MB** / 80 MB (104 MB w/ ThinkPad Proven option) 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III™** / integrated palm rest
Ext keyboard support	Yes (with option cable)

The left bay (UltraBay™) supports:
① 2nd disk; ② 2nd battery
③ std diskette drive; ④ CD-ROM
⑤ 2.88 MB diskette (option)
⑥ PCMCIA Cartridge (option)
⑦ IBM Wireless Modem ARDIS (option)
⑧ IBM Wireless Modem for Cellular/
CDPD (option)

Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)
Weight (with CD-ROM)	6.65 pounds (3.02 kg)
Battery - type	Lithium Ion / intelligent *optional*
Battery - life (1 batt)	2.2 hours *NiMH*
Battery - life (2 batt)	4.4 hours
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

> ***Liftable (pop-up) keyboard** to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery*

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
Docking Station	Dock I and II / **SelctaDock I and II and III**
Port replicator	Port Replicator I and II / **SelctaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.1
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) / IrDA 1.0 compatible / up to 1.15 Mbps**
Security	Power-on password / Hard disk password / Supervisor password /
	Security keyhole (requires cable) / Security latch for keyboard and
	DIMMS (requires cable) / PC Card lock / Personalization / Security Plate
Preinstalled software	Windows 95 with applications (listed on right)
Warranty	

Enhanced Video Card in 760ED provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled

- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

Compatible in ThinkPad 760ED family:

- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- PCMCIA Cartridge (one Type III)	84G1301
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8 - 20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99.
○ = Removable

Right column

ThinkPad 760ED strengths over 760CD:

- ➪ **Pentium 133/66 MHz** (vs 120/60 MHz)
- ➪ **PCI bus** (vs VL-Bus)
- ➪ **16 MB EDO memory** (vs 8 MB fast page)
- ➪ **64 bit path to memory** (vs 32 bit)
- ➪ **9385 64 bit graphics with 2 MB EDO**
- ➪ **CardBus PC Card support (32 bit PCI)**

Integrated Mwave™ DSP provides:

① **Data modem function**
  - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
  - Stereo waveform record and playback
  - Qsound support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support / text to speech
  - MPEG audio decode
④ **Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online User's Guide
- ThinkPad Features
- PC Card Director 4.0
- Diskette Factory
1. Triton CoSession™ Host
2. SofNet FaxWorks™ Voice™
3. Puma TranXit™
4. Compuserv for Windows
5. NetFinity for Windows 95
6. Asymetrix® Digital Video Producer™
7. MPEG Sampler (CD-ROM)
- Lotus SmartSuite 96 CD-ROM

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760ED supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760ED supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

FEATURES OF 760 MODELS

Setup Pointer (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 760XL - withdrawn

IBM® ThinkPad®:	✂ **760XL** 12.1" SVGA TFT - thick	

Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	None / **can upgrade to 4 x, 6 x, 8 x, or 8-20 x CD-ROM into UltraBay**	

Type - model (code)	**9547-U9C** (Michigan MMX)	**9547-U9K** (Michigan MMX)
Preload (see side)	**Windows 95 OSR2**	**Windows NT Workstation 4.0**
Avail / withdrawn date	April 1997 / January 1998	April 1997 / January 1998
Remv disk - size / ms	**2.1 GB** / 13 ms ◯ / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks	

Display - size and type	**12.1 inch SVGA color / 640 x 480, 800 x 600 / 65,536 simultaneous colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio

Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1024 x 768 with 256 colors

Memory - std / max	**16 MB** / 104 MB	**32 MB** / 104 MB
Memory - sockets avail	2 sockets available	1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs	
	8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets	
	Memory module under disk (not removable) and accessible by opening keyboard	
	If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)

Dimensions	11.7 x 8.3 x 2.14" (208)
Weight	6.7 pounds (3.05 kg)

Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.3 hours (4.6 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	Dock I and II / **SelectaDock I and II**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III **/ CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	None	
MPEG decoder	None	*Liftable (pop-up) keyboard* **to access and**
DSP function	None	**remove diskette drive, 1st/2nd disk, and**
Data/fax modem	None	**1st/2nd battery, and other UltraBay options**
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 1.15 Mbps	

Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate

Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in

ThinkPad 760XL supported batteries:

-	760 NiMH Battery (black)	41H9720
-	Li-Ion Battery Pack II (gray)	29H9329
-	Travel Quick Charger	85G1522
-	Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE 12.5 mm   29H9383
- 810 MB HDD II EIDE 12.5 mm   29H9313
- 1.08 GB HDD II EIDE 12.5 mm   29H9319
- 1.2 GB (1.96"+ models) 17 mm   29H9325
- 1.4 GB HDD 3L EIDE 12.5 mm   69H8412
- 2.1 GB (1.96"+ models) 17 mm   69H8414
- 3.0 GB (1.96"+ models) 17 mm   45H8789
- 5.1 GB (1.96"+ models) 17 mm   00K7902

The left bay (UltraBay™) supports:	OPTIONS	
① 2nd disk (requires Second HDD Adapter)	- Second HDD Adapter	29H9333
② 2nd battery	- Dock I (1 slot / 1 bay)	3545001
③ Standard diskette drive	- Dock II (2 slot / 2 bay)	3546001
④ 2.88 MB diskette drive	- IDE Conversion Card (for Dock II)	46H5994
⑤ CD-ROM	- **SelectaDock I**	**3547001**
	- **SelectaDock II**	**3547002**
	- **SelectaDock III**	**3547003**
Maximum internal disk capacity on 760XL is	- Port Replicator I (w/ PCMCIA slots)	66G3510
10.2 GB with two 5.1 GB disks	- Port Replicator II	66G3520
	- **SelectaDock Base Model I**	**39H7405**
Easy-Setup is entered by holding F1 when	- 2.88 MB diskette	66G0108
turning on.	- FDD External Attachment Kit	66G3618
	- 35 watt AC Adapter (slim, 4 pin)	76H0119
810 MB = DMA Mode 2 or PIO Mode 4	- **4 x CD-ROM** (UltraBay)	**39H7413**
1.08 GB = DMA Mode 2 or PIO Mode 4	- **6 x CD-ROM** (UltraBay)	**85G1957**
1.2 GB = DMA Mode 1 or PIO Mode 3	- **8 x CD-ROM** (UltraBay)	**45H8786**
1.35 GB = DMA Mode 2 or PIO Mode 4	- **8-20 x CD-ROM** (UltraBay)	**00K7903**
2.1 GB = DMA Mode 2 or PIO Mode 4	- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
3.0 GB = DMA Mode 2 or PIO Mode 4	- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
5.1 GB = Ultra DMA/33 or PIO Mode 4	- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
	- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
◯ = Removable

IBM ThinkPad 760XD - withdrawn

IBM® ThinkPad®:	✂ **760XD**
	12.1" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ◯ / 8 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9E** (Michigan MMX**)**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ◯ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	April 1997 / January 1998
Display - size and type	**12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail
	Memory module under disk (not removable) and accessible by opening the keyboard

Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	The left bay (UltraBay™) supports:
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	① 2nd disk; ② 2nd battery
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest	③ std diskette drive; ④ std CD-ROM
Ext keyboard support	Yes (with option cable)	⑤ 2.88 MB diskette

Dimensions / weight	11.7 x 8.3 x 2.0" (194 cubic inches) / 7.0 pounds (3.18 kg) with CD-ROM		
Battery - type	Lithium Ion / intelligent	*optional*	**Liftable (pop-up) keyboard to access**
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)	*NiMH*	**and remove CD-ROM, diskette drive,**
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		**1st/2nd disk, and 1st/2nd battery**

Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	Dock I and II / **SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot

Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 1.15 Mbps
Security	Power-on password / Hard disk password / Supervisor password / Locking
	device keyhole (Kensington™ cable lock) / Security latch for keyboard and
	DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in

Enhanced Video Card in 760XD provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- Use software called Digital Video Producer™
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

OPTIONS

Option	Code
- Second HDD Adapter	29H9333
- Dock I (1 slot / 1 bay)	3545001
- Dock II (2 slot / 2 bay)	3546001
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 35 watt AC Adapter (slim, 4 pin)	76H0119
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- Other options from ThinkPad Proven partners	

Integrated Mwave™ DSP provides:

① **Data modem function**
   - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
   - G3 fax send/receive (14.4 Kbps)
③ **Audio function**
   - Stereo waveform record and playback
   - Qsound support (3-D effect)
   - 32 voice MIDI wave table synthesizer
   - SoundBlaster support / text to speech
   - MPEG audio decode
④ **Telephone function**
   - Full telephone (can use opt headset)
   - Telephone answering machine
   - Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 760XD supported batteries:

- 760 NiMH Battery (black)   41H9720
- Li-Ion Battery Pack II (gray)   29H9329
- Travel Quick Charger   85G1522
- Car Battery Adapter   49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)
- 720 MB HDD II EIDE   12.5mm 29H9383
- 810 MB HDD II EIDE   12.5 mm 29H9313
- 1.08 GB HDD II EIDE   12.5 mm 29H9319
- 1.2 GB (1.96"+ models)   17 mm   29H9325
- 1.4 GB HDD 3L EIDE   12.5 mm 69H8412
- 2.1 GB (1.96"+ models)   17 mm   69H8414
- 3.0 GB (1.96"+ models)   17 mm   45H8789
- 5.1 GB (1.96"+ models)   17 mm   00K7902

FEATURES OF 760 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM SystemXtra Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

IBM ThinkPad 765L - withdrawn

IBM® ThinkPad®:	**765L** 13.3" XGA TFT

Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory	
Processor upgrade	None	
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	None / **can upgrade to 4 x or 6 x or 8 x CD-ROM into UltraBay**	

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features
- Diskette Factory
1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. IntelliLink Connect
7. IBM AntiVirus
8. IBM Internet Connection Services with Netscape Navigator web browser
9. Registration Mailer
10. ThinkPad on the NET
11. America Online
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Type - model (code)	**9547-U9J**
Preload (see side)	**Windows 95 OSR2**
Avail / withdrawn date	June 1997 / July 1998
Remv disk - size / ms	**3.0 GB** / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks / SMART
Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB
Memory - sockets avail	1 socket available (1 socket uses 16 MB)
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)
Pointing / palm rest	**TrackPoint III**™ / integrated palm rest / ext keyboard support (with option cable)
Dimensions	11.7 x 9.3 x 2.23" (243 cubic inches)
Weight	7.4 pounds (3.34 kg)
Battery - type	Lithium Ion / intelligent *(optional NiMH battery supported)*
Battery - life (1 batt)	2.1 hours (4.2 hours with 2 batteries)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Docking Station	**SelectaDock I and II and III**
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot

Video in/out	None	***Liftable (pop-up) keyboard* to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery, and other UltraBay options**
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	**16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688**	
	Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / output jack (3.5 mm)	
Telephone	None	
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 1.15 Mbps	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years	

ThinkPad 765L supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 760 supported disks:

- (360/750/755 IDE disks not supported)		
- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

The left bay (UltraBay™) supports:
① 2nd disk (requires Second HDD Adapter)
② 2nd battery
③ Standard diskette drive
④ 2.88 MB diskette drive
⑤ CD-ROM

Maximum internal disk capacity on 765L is 10.2 GB with two 5.1 GB disks

Easy-Setup is entered by holding F1 when turning on.

-	Second HDD Adapter	29H9333
-	IDE Conversion Card (for Dock II)	46H5994
-	**SelectaDock I**	**3547001**
-	**SelectaDock II**	**3547002**
-	**SelectaDock III**	**3547003**
-	Port Replicator I (w/ PCMCIA slots)	66G3510
-	Port Replicator II	66G3520
-	**SelectaDock Base Model I**	**39H7405**
-	2.88 MB diskette	66G0108
-	FDD External Attachment Kit	66G3618
-	56 watt AC Adapter (4 pin; 3 prong)	12J2456
-	**6 x CD-ROM** (UltraBay)	**85G1957**
-	**8 x CD-ROM** (UltraBay)	**45H8786**
-	**8-20 x CD-ROM** (UltraBay)	**00K7903**
-	**8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
-	**16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
-	**16 MB SO DIMM NP EDO 64 bit (new)**	**01K1124**
-	**32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
-	**64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
-	PCMCIA 33.6 Kbps modem w/ XJACK	55H6759
-	56K PC Card Modem Kit	04K0052

810 MB	= DMA Mode 2 or PIO Mode 4
1.08 GB	= DMA Mode 2 or PIO Mode 4
1.2 GB	= DMA Mode 1 or PIO Mode 3
1.35 GB	= DMA Mode 2 or PIO Mode 4
2.1 GB	= DMA Mode 2 or PIO Mode 4
3.0 GB	= DMA Mode 2 or PIO Mode 4
5.1 GB	= Ultra DMA/33 or PIO Mode 4

FEATURES OF 765 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
○ = Removable

IBM® ThinkPad®:	765D
	13.3" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG
Processor type	**Pentium® MMX 166/66 MHz** (P55CLM) / 64 bit to L2 cache / 64 bit to memory
Processor upgrade	None
L2 cache	**256 KB** / write-back / direct mapped / 10 ns / synchronous pipelined burst
Removable diskette	3.5" 1.44 MB ◯ / use in UltraBay or attach externally via rear ext FDD port
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)
Removable CD-ROM	**5.25" CD-ROM ◯ / 8 x speed** / multi-session / XA / play with eject button
	EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices
Type - model (code)	**9546-U9H**
Preload (see side)	Windows 95 OSR2
Remv disk - size / ms	**3.0 GB** / 12 ms ◯ / DMA Mode 2 or PIO Mode 4 / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB
Avail / withdrawn date	June 1997 / July 1997 (C: is 1.99 GB, D: is 885 MB)
Display - size and type	**13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors**
Display - techology	**Black Matrix TFT - active matrix** / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / **2 MB EDO DRAM** / 70 ns
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors
Memory - std / max	**32 MB** / 104 MB 70 ns / non-parity / 3.3v / EDO
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail
	Memory module under disk (not removable) and accessible by opening the keyboard
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	The left bay (UltraBay™) supports:
Keyboard slope	**Automated tilt up keyboard** (5.5 degrees)	① 2nd disk; ② 2nd battery
Pointing / palm rest	**TrackPoint III™** / integrated palm rest	③ std diskette drive; ④ std CD-ROM
Ext keyboard support	Yes (with optional cable)	⑤ 2.88 MB diskette
Dimensions / weight	11.7 x 9.3 x 2.23" (243 cubic inches) / 7.7 pounds (3.49 kg) with CD-ROM
Battery - type	Lithium Ion / intelligent	*optional NiMH*	**Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery**
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)
	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)
	Intel Mobile Triton 82430MX PCIset / TI PCI1130 for CardBus
Port replicator	Port Replicator I and II / **SelectaDock Base Model I**
Docking Station	**SelectaDock I and II and III**
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / **CardBus 32 bit PCI** / PCMCIA 2.1 compatible
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot
Video in/out	**Composite and S-Video in/out / game port**
MPEG decoder	**MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder** (MPEGCD1)
DSP function	**Mwave MDSP2780 DSP with modem, fax, audio, telephony function**
Data/fax modem	**Data/fax modem function via DSP** (v.34 to 33.6 Kbps) / Mwave 2.21
Audio support	**16 bit audio chip on planar with Mwave DSP**
	Int stereo speakers / .5 watt / slide volume control / internal microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD
Infrared ports	**Infrared ports (front and back) /** IrDA 1.0 compatible / up to 1.15 Mbps
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate
Warranty	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in
Service Options	On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years

Enhanced Video Card in 765D provides:

- **Composite in** and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.
- **Composite out** and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.
- **Mini game port** for MIDI or joystick
- Includes video in and video out ports (includes one video in/out cable)
- **Hardware acceleration** of 'Video for Windows'™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion
- **Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles**

- Second HDD Adapter	29H9333
- IDE Conversion Card (for Dock I/II)	46H5994
- **SelectaDock I**	**3547001**
- **SelectaDock II**	**3547002**
- **SelectaDock III**	**3547003**
- Port Replicator I (w/ PCMCIA slots)	66G3510
- Port Replicator II	66G3520
- **SelectaDock Base Model I**	**39H7405**
- 2.88 MB diskette drive	66G0108
- FDD External Attachment Kit	66G3618
- 56 watt AC Adapter (4 pin; 3 prong)	12J2456
- **4 x CD-ROM** (UltraBay)	**39H7413**
- **6 x CD-ROM** (UltraBay)	**85G1957**
- **8 x CD-ROM** (UltraBay)	**45H8786**
- **8-20 x CD-ROM** (UltraBay)	**00K7903**
- **8 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7340**
- **16 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7341**
- **16 MB SO DIMM NP EDO 64 bit (new)**	**01K1124**
- **32 MB SO DIMM 3.3v NP EDO 64 bit**	**92G7342**
- **64 MB SO DIMM 3.3v NP EDO 64 bit**	**76H0268**
- PCMCIA 33.6 Kbps modem XJACK	55H6759
- 56K PC Card Modem Kit	04K0052

WINDOWS 95 PRELOAD

- Microsoft Windows 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Features Program
- Diskette Factory Utilities
1. Lotus Organizer
2. CompuServ for Windows
3. Puma TranXit™
4. NetFinity for Windows 95
5. Triton CoSession™ Host
6. SofNet FaxWorks™ Voice
7. Asymetrix® Digital Video Producer
8. IntelliLink Connect
9. IBM AntiVirus
10. IBM Internet Connection Services with Netscape Navigator web browser
11. Registration Mailer
12. ThinkPad on the NET
13. America Online
- MPEG Sampler CD-ROM
- Lotus SmartSuite 96 CD-ROM
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)

Integrated Mwave DSP provides:

① **Data modem function**
- V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)
② **Fax modem function**
- G3 fax send/receive (14.4 Kbps)
③ **Audio function**
- Stereo waveform record and playback
- Qsound support (3-D effect)
- 32 voice MIDI wave table synthesizer
- SoundBlaster support / text to speech
- MPEG audio decode
④ **Telephone function**
- Full telephone (can use opt headset)
- Telephone answering machine
- Full duplex speakerphone
⑤ **Digital Simultaneous Voice Data**

Easy-Setup is entered by holding F1 when turning on.

ThinkPad 765D supported batteries:

- 760 NiMH Battery (black)	41H9720
- Li-Ion Battery Pack II (gray)	29H9329
- Travel Quick Charger	85G1522
- Car Battery Adapter	49G2167

ThinkPad 765 supported disks:

- 720 MB HDD II EIDE	12.5 mm	29H9383
- 810 MB HDD II EIDE	12.5 mm	29H9313
- 1.08 GB HDD II EIDE	12.5 mm	29H9319
- 1.2 GB (1.96"+ models)	17 mm	29H9325
- 1.4 GB HDD 3L EIDE	12.5 mm	69H8412
- 2.1 GB (1.96"+ models)	17 mm	69H8414
- 3.0 GB (1.96"+ models)	17 mm	45H8789
- 5.1 GB (1.96"+ models)	17 mm	00K7902

FEATURES OF 765 MODELS

Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
US EPA Energy Star compliant
Personalized nameplate in indention
Personalization screen at startup
International Warranty Service
IBM System Care Program
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support
IBM and dealer warranty/service
Online Housecall (remote diagnostics)

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).
◯ = Removable

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No warranties are expressed or implied in this summary
(765D) Compiled by Roger Dodson, IBM. June 1998

IBM® ThinkPad®:

Processor type/path	**Pentium® MMX™ 200/66 or 233/66MHz**[1] (Tillamook) / 64bit to L2 and memory
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO
L2 cache	**512KB** / write-back / direct mapped / 7ns data; 15ns tag / sync pipelined burst
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally
External FDD port	External diskette port (use std cable to attach diskette drive externally)
CD-ROM (removble)	*Option:* **5.25" CD-ROM / 20X-8X**[5] **or 24X-10X**[5] **speed** / CAV / bootable / hot swapping EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II
DVD (removable)	*Option:* **DVD-ROM drive** / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires *DVD and Enhanced Video Adapter* for movie playback / sw enb AC-3 port

Type - model	9548-40U	9548-30U	9548-31U	9549-1AU	9548-32U (AAP)
Processor	**200/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**	**233/66MHz**
Display (diagonal)	**13.3" XGA**	**13.3" XGA**	**13.3" XGA**	**14.1" XGA**	**13.3" XGA**
Disk (removable)	**3.2GB**[4] / PIO4	**4GB** / PIO4	**4GB** / DMA33	**5.1GB** / PIO4	None
Preload (see side)	**W95 OSR2**	**W95 OSR2**	**NT 4.0 SP3**	**W95 OSR2**	Blank (no disk)
DVD and Enh Vid Ad	Optional	Optional	Optional	**Standard**	Optional
Modem	Opt PC Card	Opt PC Card	Opt PC Card	**33.6Kbps** (upg)	Opt PC Card
Avail / withdrawn date	October 1997 / September 1998				

Memory - std / max	**32MB** / 256MB[3] non-parity / 3.3v / **SDRAM** / 83 or 100MHz
Memory - upgrade	2 sockets available for two JEDEC 144 pin EDO or SDRAM SO-DIMMs Sockets accessed by removing screw on bottom / can mix SDRAM w/ 760-supported EDO

Display - size (colors)	**XGA color / 640 x 480 (16M), 800 x 600 (16M), or 1024 x 768 (65,536 siml colors)**
Display - techology	**Active Matrix TFT -** 100 to 1 contrast ratio / 180 degree tilt

Graphics - controller	**Trident™ CYBER9397** / 64-bit SVGA accelerator / **2MB SGRAM** / 83MHz
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, ActiveMovie support / ZV interface
Graphics - features	**3D hardware accelerator** / interpolation in X and Y axis / color space conversion
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors (75Hz) or 1024 x 768 w/ 65,536 colors

Disk (removable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4

Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)
Pointing device	**TrackPoint®** / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top

Dimensions	*1AU:* 12.3 x 10 x 2.2" (270 cubic in) / 7.8 pounds (3.55 kg) with battery/diskette
Weight[2]	*Others:* 12.3 x 9.5 x 2.2" (257 cubic inches) / 7.4 pounds (3.35 kg) with batt/diskette

Battery - type	Lithium Ion / intelligent / left side
Battery - life (1 batt)	*1AU:* 3.5 hrs (7 hrs with second battery in UltraBay II) / *Others:* 4 hrs (8 hr w/ 2 batt)
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs

Architecture	ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) **Intel 430TX PCIset** / TI PCI1250 for CardBus / LM75 digital thermometer
Port replicator	**SelectaBase 770** / PC Card Enabler
Docking Station	**SelectaDock III / SelectaDock I and II**
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / **CardBus 32-bit PCI** / PCMCIA 2.1 / Zoomed Video
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot

Video in/out	*1AU or option:* Video in/out (composite and S-Video) / SAA7111A NTSC/PAL
MPEG decoder	*1AU or option:* MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz
Data/fax modem	*1AU:* 33.6Kbps (56Kbps upgradeable via x2[8]) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA
Audio support	16-bit / CS4237B / **SRS 3D audio** / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) **/ 1 watt /** rotary volume control (right) **/** int microphone
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / **up to 4Mbps**

Security	Power-on password / Hard disk password / Supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays

Limited warranty[11]	**3 year** - ThinkPad EasyServ (depot repair service) or carry-in / international
Service options[15]	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 5 years

DVD and Enhanced Video Adapter provides (standard in 1AU; optional all others):

- **MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder** (audio decoded via software)
- **DVD movie playback** (MPEG-2 decoding; decryption and audio decoding via software)
- **Video in** (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay
- **Video out** (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad
- **Dolby® Digital AC-3**[6] (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier
- **Three ports** - ① video in, ② video out, ③ AC-3
- Includes video in/out cable

- 5.1GB disk, 12ms, Ultra DMA/33	11J8947
- 8.1GB disk, 12ms, Ultra DMA/33	02K0517
- 2nd Disk Adapter (for 760/770 disks)	11J8836
- **SelectaBase 770**	83H6735
- SelectaDock I[18]	3547001
- SelectaDock II[18]	3547002
- **SelectaDock III**[18]	**3547003**
- **SelectaBase PC Card Enabler**	83H6741
- **760 UltraBay Tray for SD III**	**11J8839**
- 56 watt AC Adapter (barrel; 3 prong)	83H6739
- **20X-8X CD-ROM Drive** (UltraBay II)	11J8933
- **24X-10X CD-ROM Drive** (UltraBay II)	02K0516
- **DVD CD-ROM Drive** (UltraBay II)	11J8950
- DVD and Enh Video Adapter	11J8957
- **16MB SO DIMM 3.3v NP SDRAM**	**76H0293**
- **32MB SO DIMM 3.3v NP SDRAM**	**76H0294**
- **64MB SO DIMM 3.3v NP SDRAM**	**76H0295**
- 56K PC Card Modem Kit	04K0052
- ThinkPad 770 Li-Ion Battery	83H6738

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

WINDOWS 95 PRELOAD[16]

- Microsoft® Windows® 95 OSR2 (FAT16)
- Online User's Guide
- ThinkPad Configuration Program
- Diskette Factory Utilities
1. Puma TranXit; 2. IBM AntiVirus
3. Asymetrix Digital Video Producer (1AU)
4. RingZero Ring Central (1AU only)
5. Intelliquest Registration Mailer
6. Voyetra Audiostation
7. Artisoft ConfigSafe
8. IBM Internet Connection services with Netscape Navigator web browser
9. Intel® LANDesk® Client Manager
10. Intel Video Phone (receive) (1AU only)
11. ThinkPad PointCast
12. NetMeeting™ 2.0
13. Ergonomics; 14. ThinkPad on the NET
15. NetFinity for Windows 95
- Recovery CD-ROM with boot diskette
- Windows 95 CD-ROM (no installation)
- Internet Explorer 4.0 CD-ROM

WINDOWS NT 4.0 PRELOAD

- Windows NT® Workstation (FAT16)
- Advanced NT extensions:
  - Power management
  - UltraBay Plug and Play
  - DVD (storage only; no DVD movies)
  - Hot Plug PC Card; MPEG-2 playbck
  - 3D graphics (OpenGL)
  - Video capture
- Online User's Guide
- ThinkPad Configuration Program
1. IBM AntiVirus
2. IBM Internet Connection services with Netscape Navigator web browser
3. Intel LANDesk Client Manager

The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:
① std diskette; ② optional DVD drive; ③ optional CD-ROM; ④ optional 2nd disk; ⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive;

Easy-Setup is entered by holding F1 when turning on.

Screens are 150 nits (90 nits on battery)

ThinkPad 770 supported disks:

- **3.2GB** 13ms read/14ms write
   17 mm   PIO Mode 4 or DMA Mode 2
- **4.0GB** 13ms read/14ms write
   12.5 mm   PIO Mode 4 or Ultra DMA/33
- **5.1** and **8.1GB** 12ms read/13ms write
   17 mm   PIO Mode 4 or Ultra DMA/33
- All 760 supported disks (requires opt adaptr)

FEATURES OF 770 MODELS

Wired for Management 1.1a
PC 97 compliant
DMI 1.1 compliant
DMI instrumentation (thermal monitoring)
Wake-on-LAN via SelectaDock III
C: is 1.99 GB, D: is up to 1.99 GB, etc.
Quick Setup Guide (single page)
LCD indicator panel
Plug and Play 1.0a
Discharge battery via mouse click
Non-disruptive battery exchange
Standby, suspend, safe suspend, and hibernation modes
ENERGY STAR compliant
International Warranty Service[14]
IBM SystemXtra™
24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support
IBM and dealer warranty/service

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IBM® ThinkPad®:	✂ **820** PowerPC - TFT color - CD-ROM
Processor type	**Power PC 603e** / 100/33 MHz / 32 KB L1 cache
L2 cache	256 KB / write through / 2 way associative / 32 bit transfers
Processor / L2 upgrade	None
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable
Removable CD-ROM	**5.25" CD-ROM** ○ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM
Type - model	6040-xxx (listed below)
Available date	July 1995 or later (listed below)
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector
Removable disk - size	*Choice:* **540 MB** 14 ms ❏ ○ **/ 810 MB** 14 ms ❏ ○ / **1.2 GB** 12 ms ○
Display - type	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below)
Display - techology	**Black Matrix TFT - active matrix / up to 65,536 simultaneous colors**
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Video function	*Some:* **Video acceleration / composite in/out** (called G10 Graphics with Motion Video Adapter) with Personal Conferencing for AIX CD-ROM
Memory - std / max	16 or 32 MB / 48 MB 70 ns / **parity** / 5 volt / 32 bit transfers
Mem - sockets	Standard: 1 or 2 SO DIMMs; available: 2 or 1 SO DIMM sockets (16 MB
Mem-options available	8, 16 MB JEDEC 72 pin SO DIMMs DIMM(s) std)
Keyboard / # of keys	Full size alp/num / 84 (no Fn key) Easy-Setup is entered by holding F1 when
Keyboard slope	**Palm rest space** power on
Mouse/pointing	**TrackPoint III**™
Ext keyboard support	Yes (with option cable)
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)
Color	Black
Weight (with battery)	7.5 pounds (with CD-ROM)
Battery - type	Nickel hydride (NiMH) / intelligent
Battery - life	2 to 5 hours
Charge time - on / off	2.0 hrs / 1.5 hrs
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station	None
Port replicator	None
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Data/fax modem	None (use PCMCIA)
Audio support	**CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (.5 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)
Audio in/out jacks	Input jack / output jack
Infrared ports	None
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	*Choice:* none or select a supported operating system (listed on side)
Warranty	**3 year** - ThinkPad EasyServ
Warranty options	ThinkPad EasyServ Overnight Repair Option

ALL 820 MODELS
Liftable (pop-up) keyboard **to access and remove CD-ROM, diskette drive, disk, battery, and memory**

ThinkPad Power Series 820 strengths:

⇨ **PowerPC performance**
⇨ **AIX or NT preloaded (or no operating sys)**
⇨ **Removable, double speed, 5.25" CD-ROM**
⇨ **Standard or optional Video Card (acceleration, composite video in/out)**

Operating System preloads:
① IBM AIX Version 4 for Clients 4.1.3
- Ultimedia Services Ver 2.1.2
- Insignia SoftWindows Ver 1.1
- Speech Dictation
- Personal Conferencing for AIX (some mod)
- Essentials! (catalogs and support)
- Power, Performance, Potential multimedia presentation
- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX (some)
- Black 3 button mouse
② Microsoft Windows NT 3.51 Workstation
- Essentials! (catalogs and support)
- Power, Performance, Potential presenta
- Compuserve WinCIM Power Series Ed
- Introducing ThinkPad Power Series 820
- CD-ROMs included: Program Pack, NT backup
③ No preloaded operating system
- CD-ROMs included: Program Pack, Pers Conferencing for AIX (some mod)
④ IBM OS/2 Warp Connect (when available)
⑤ Solaris (when available)

G10 Graphics with Motion Video Adapter (some models) provides:

- **Acceleration** of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation
- **Composite in** (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV, VCR) in NTSC.
- Includes a cable with in/out RCA jacks to connect to the "integrated video connector" on back of unit

Options for ThinkPad Power Series 820:
- Disks: 540 MB SCSI-2   30H1388
             810 MB SCSI-2   30H1392
             1.2 GB SCSI-2   30H1467
- AC Adapter 50 watts   30H1403
- 820 Travel Quick Charger   30H1373
- 820 NiMH Battery Pack   30H1369
- IBM Personal Microphone   12H1504
- 8 MB SO DIMM parity   92G7255
- 16 MB SO DIMM parity   92G7257

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
✂ 6040-OCD	30H1553	**32 MB**	1.2 GB	800x600	G10	None	$ 7,999	Aug 95
✂ 6040-ODD	30H1554	**32 MB**	1.2 GB	800x600	G10	AIX	8,799	Aug 95
✂ 6040-OED	30H1555	**32 MB**	1.2 GB	800x600	G10	NT	8,299	Aug 95
✂ 6040-06D	30H1477	32 MB	810 MB	800x600	G10	None	7,549	Jul 95
✂ 6040-07D	30H1478	32 MB	810 MB	800x600	G10	AIX	8,399	Jul 95
✂ 6040-08D	30H1480	32 MB	810 MB	800x600	G10	NT	7,849	Jul 95
✂ 6040-966	30H1482	16 MB	810 MB	640x480	G10 w/ Motion	None	6,449	Jul 95
✂ 6040-986	30H1484	16 MB	810 MB	640x480	G10 w/ Motion	NT	6,749	Jul 95
✂ 6040-977	30H1486	**32 MB**	810 MB	640x480	G10 w/ Motion	AIX	8,399	Jul 95
✂ 6040-006	30H1487	16 MB	540 MB	640x480	G10	None	5,699	Jul 95
✂ 6040-026	30H1489	16 MB	540 MB	640x480	G10	NT	5,999	Jul 95
✂ 6040-017	30H1491	**32 MB**	540 MB	640x480	G10	AIX	7,649	Jul 95

FEATURES OF 820 MODELS
Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded indention
Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for $99
❏ = Upgradeable; ○ = Removable; ✂ = Withdrawn effective March 20, 1996

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No warranties are expressed or implied in this summary
(820) Compiled by Roger Dodson, IBM. February 1996

IBM® ThinkPad®:	✂ **850** PowerPC - TFT color - CD-ROM - Video Card
Processor type	**Power PC 603e** / 100/66 MHz / 32 KB L1 cache
L2 cache	256 KB / write back / direct mapped / 64 bit transfers
Processor / L2 upgrade	None
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable
Removable CD-ROM	**5.25" CD-ROM** ○ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM
Type - model	6042-xxx (listed below)
Available date	July 1995 or later (listed below)
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector
Removable disk - size	*Choice:* **540 MB** 14 ms ❑ ○ / **810 MB** 14 ms ❑ ○ / **1.2 GB** 12 ms ○
Display - type	*Choice:* Color 640 x 480 or Color 800 x 600 (listed below)
Display - techology	**Black Matrix TFT - active matrix** / up to 65,536 simultaneous colors
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt
Video function	**Video acceleration / composite in/out** (called G10 Graphics with Motion Video)
Video camera	*Option:* CCD camera on top of LCD / NTSC / white balance, iris, lens focus
Memory - std / max	16 or 32 MB / 80 to 96 MB 70 ns **parity** / 5 volt / 64 bit transfers
Mem - sockets	Standard: 2 SO DIMMs in 2 SO DIMM sockets; available: 2 IC DRAM sockets
Mem - options available	4, 8, 16, 32 MB IC DRAMs / must be installed in matched pairs
Keyboard / # of keys	Full size alp/num / 84 (no Fn key)	Easy-Setup is entered by holding F1
Keyboard slope	Yes (legs pop out) / **palm rest space**	when power on
Mouse/pointing	**TrackPoint III**™	
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 10.2 x 2.4" (286 cubic inches)	**ALL 850 MODELS**
Color	Black	*Liftable (pop-up) keyboard* to
Weight (with battery)	7.96 pounds (with CD-ROM)	access and remove CD-ROM,
Battery - type	Nickel hydride (NiMH) / Intelligent	diskette drive, disk, and memory
Battery - life	2 to 5 hours	**(Battery removed from side)**
Charge time - on / off	2 hrs / 1.5 hrs	
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Docking Station	None
Port replicator	None
PCMCIA™ 2.1 slots	**2 Type I or 2 Type II or 1 Type III**
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Data/fax modem	None (use PCMCIA) / voice-over-data using industry standard modems
Audio support	**CD quality audio (44.1 kHz, 16 bit, stereo)** / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)
Audio in/out jacks	Input jack / output jack / line in / line out (all 3.5 mm)
Infrared ports	None
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Preinstalled software	*Choice:* none or select a supported operating system (listed below)
Warranty	**3 year** - ThinkPad EasyServ
Warranty options	ThinkPad EasyServ Overnight Repair Option

ThinkPad Power Series 850 strengths:

⇨ **PowerPC performance**
⇨ **Collaborative and conversational computing**
⇨ **Removable, double speed, 5.25" CD-ROM**
⇨ **Video card (acceleration, composite video)**
⇨ **Optional top mounted video camera**

Operating System Preloads:

① IBM AIX Version 4 for Clients 4.1.3
   - Ultimedia Services Ver 2.1.2
   - Insignia SoftWindows Ver 1.1
   - Speech Dictation
   - Personal Conferencing for AIX on CD
   - Essentials! (catalogs and support)
   - Power, Performance, Potential
     multimedia presentation
   - CD-ROMs included: Program Pack, AIX
     backup, Pers Conferencing for AIX
   - Black 3 button mouse
② Microsoft Windows NT 3.51 Workstation
   - Essentials! (catalogs and support)
   - Power, Performance, Potential presenta
   - Compuserve WinCIM Power Series Ed
   - Introducing ThinkPad Power Series 850
   - CD-ROMs included: Program Pack, NT
     backup
③ No preloaded operating system
   - CD-ROMs included: Program Pack,
     Personal Conferencing for AIX
④ IBM OS/2 Warp Connect (when available)
⑤ Solaris (when available)

G10 Graphics with Motion Video provides:
- **Acceleration** of motion video with
  scaling (no interpolation) of image.
  Video may be scaled up to full screen
  without frame rate degradation
- **Composite in** (from camcorder,
  TV, VCR) for video capture (capture and
  digitize video), still image capture
  (capture and digitize still photo images),
  and overlay (view video on LCD without
  capturing it to disk). Uses NTSC or PAL
- **Composite out** (to camcorder, TV,
  VCR) in NTSC. So can use TV as an
  external display or record the contents of
  the screen to VCR
- ThinkPad 850 includes in/out RCA jacks
  on the back of the system

Options for ThinkPad Power Series 850:
- Disks: 540 MB SCSI-2   30H1388
         810 MB SCSI-2   30H1392
         1.2 GB SCSI-2   30H1467
- AC Adapter 50 watts   30H1403
- **Video Camera (NTSC)**   **85G2715**
- 850 NiMH Battery Pack   85G2671
- 850 Quick Charger   85G2662
- IBM Personal Microphone   12H1504
- 4 MB IC DRAM 70ns 5v parity   92G7238
- 8 MB IC DRAM 70ns 5v parity   92G7241
- 16 MB IC DRAM 70ns 5v parity 92G7234
- 32 MB IC DRAM 70ns 5v parity 92G7235

FEATURES OF 850 MODELS

Battery life and other indicators
Non-disruptive battery exchange
Suspend mode
US EPA Energy Star compliant
Personalized nameplate in molded indention
Compatible with PowerPC Reference
   Platform™ Specifications (PReP) v1.1
3 year warranty
International Warranty Service
24 hour / 7 day telephone, bulletin
   board, fax, and electronic support
IBM warranty/service
30 day money back guarantee

Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail
✂6042-9CD	29H8170	32 MB	1.2 GB	800x600	G10 w/ Motion	None	$ 8,999	Aug 95
✂6042-9DD	29H8171	32 MB	1.2 GB	800x600	G10 w/ Motion	AIX	9,849	Aug 95
✂6042-9ED	29H8173	32 MB	1.2 GB	800x600	G10 w/ Motion	NT	9,299	Aug 95
✂6042-96D	29H8196	32 MB	810 MB	800x600	G10 w/ Motion	None	8,549	Jul 95
✂6042-97D	29H8197	32 MB	810 MB	800x600	G10 w/ Motion	AIX	9,399	Jul 95
✂6042-98D	29H8199	32 MB	810 MB	800x600	G10 w/ Motion	NT	8,849	Jul 95
✂6042-967	29H8175	32 MB	810 MB	640x480	G10 w/ Motion	None	8,149	Jul 95
✂6042-977	29H8176	32 MB	810 MB	640x480	G10 w/ Motion	AIX	8,999	Jul 95
✂6042-987	29H8178	32 MB	810 MB	640x480	G10 w/ Motion	NT	8,449	Jul 95
✂6042-906	29H8180	16 MB	540 MB	640x480	G10 w/ Motion	None	6,669	Jul 95
✂6042-926	29H8182	16 MB	540 MB	640x480	G10 w/ Motion	NT	6,999	Jul 95

Compatible in 820 and 850: ① Disks, ② CD-ROM, ③ AC Adapter

ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at
any location, IBM repairs and mails back (no shipping charges, most shipping is overnight,
3 business day average turnaround). Overnight repair option in US available for $99.
❑ = Upgradeable; ○ = Removable; ✂ = Withdrawn effective March 20, 1996

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(850) Compiled by Roger Dodson, IBM. February 1996

1 MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.

2 Includes battery (and travel cover on ThinkPad 600) and excludes external diskette drive if applicable; actual weight may vary due to vendor components, manufacturing process and options.

3 Current available memory options allow memory expansion up to 160MB using two 64MB SDRAM SO DIMMs in the two available slots for memory expansion. Memory expansion beyond 160MB will depend on the availability of memory options larger than 64MB built to IBM ThinkPad 600-770 specifications and such availability cannot be assured. EDO memory is not supported in ThinkPad 770E/ED models.

4 GB means billion bytes when referring to hard drive capacity. Accessible capacity varies.

5 Variable read rate. Actual playback speed will vary and is often less than the maximum possible.

6 DVD drive required for ThinkPad 770 models (standard in some models). For Dolby Digital output, the 'DVD and Enhanced Video Adapter' (11J8957) must be installed (standard in some models) and the ThinkPad notebook connected to appropriate receiver and external speakers.

7 Actual speeds depend on many factors are often less than the maximum possible.

8 Upgrade on 9549-1AU (770) and -5AU (770ED) and 770X via Internet software download at no additional charge (Internet access fees excepted). Software upgrade via the Internet to the V.90 56K ITU standard beginning in 4Q98. Subject to change without notice. x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

9 Software upgrade via the Internet to the V.90 56K ITU standard beginning 4Q98. Subject to change without notice.

10 Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences.

11 For terms and conditions or a copy of IBM's statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.

12 Not warranted by IBM.

13 If you qualify and subject to condition.

14 Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.

15 Service options available based on specific ThinkPad notebook purchased; details available via fax by calling 1 800 426-3395 and requesting document #11017 or call your IBM authorized reseller for additional information.

16 Applications may vary from retail version and may not include all documentation or functions. Not all applications available separately. Titles subject to change without notice.

17 SelectaDock III requires SelectaBase 600

18 SelectaDock III requires SelectaBase 770

19 DVD drive supports standard CD-ROM and data-only DVD discs on 600 models. DVD movie playback requires an optional third-party DVD PC Card adapter on 600 models. DVD movie playback not supported with Windows NT.

20 Lotus SmartSuite may be preinstalled or provided on CD-ROM depending on the model. Documentation and hard copy available at no extra charge.

21 The IBM ThinkPad 770X is designed to recognize up to 320MB of addressable memory with the new Mobile Pentium II processor at 300MHz. 64MB or 128MB of new, fast SDRAM SO DIMM system memory (RAM) is standard, depending on model. Current available memory options allow memory expansion up to 320MB using two 128MB SDRAM SO DIMMs in the two user accessible slots for memory expansion. On models with the 13.7-inch display, one of these slots is currently occupied with a 64MB SDRAM that provides the standard 128MB of system memory. This 64MB SDRAM would have to be removed and replaced with a 128MB SDRAM to achieve the 320MB maximum.

22 56K modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

23 x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

24 Designed to be capable of receiving at up to 56kbps with x2 or V.90 compatible phone line and server equipment, and transmitting at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum. Complies with V.90 ITU 56K specifications dated 2/98.

25 For ThinkPad 600 or 600E, to achieve 288MB memory configuration on models 2645-45U/-55U/-85U, you need to replace one 32MB SDRAM SO DIMM in the memory slot with 128MB SDRAM SO DIMM and add a second 128MB SDRAM SO DIMM.

26 When using multi-monitor with Windows 98, available graphics memory may limit resolution and/or color. Individual application support for this feature will vary.

27 Software-supported MPEG-2 playback is supported on ThinkPad 770X models with Windows 98. Software-supported MPEG-2 playback and support for video capture on Windows NT models requires the optional 'DVD and Enhanced Video Adapter'.

28 For ThinkPad 770, IBM Wake on LAN support available via the optional SelectaBase 770 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For ThinkPad 600, IBM Wake on LAN support available via the optional SelectaBase 600 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For the ThinkPad 380Z, 560Z, and 390, IBM Wake on LAN support available via the optional ThinkPad Port Replicator with Advanced EtherJet Feature.

29 S.M.A.R.T. is defined as Self-Monitoring, Analysis and Reporting Technology.

30 Response time varies. May exclude some holidays.

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