	<b>TECRA</b>	<b>750CDT</b>	Product S	Specifications
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TECRA 750CDT Product SpecificationS		
	750CDT: PA1253U-T2C	
DDOCECCOD	5.1 Billion Bytes = 4.77 GB	
PROCESSOR	Voc. with MMV summent	
Intel Pentium ®233Mhz (1.8v/2.5v)	Yes: with MMX support	
External data bus width	64 bit	
External data/address bus speed	66 MHz	
Integrated Coprocessor	Yes	
Processor Cache (L1)	32KB: (16KB code; 16KB data)	
Standards  LEVEL 2 (12) CA CHE	ACPI v. 1.0 ready	
LEVEL 2 (L2) CACHE	Yes: 512KB	
Data Bus Width/ Data Bus Speed	64 bit/66 MHz	
DATA RAM:	(CAN 2014 25V) 2 A T'	
2 Mbit Pipelined Burst Synchronous SRAM	(64K x 32bit, 2.5V) x 2 Access Time: 8	SIIS
TAG-RAM:	(22V v Ohit 25V) v 2 Agges Time 1	Ana
256Kbit Asynchronous SRAM	(32K x 8bit, 2.5V) x 2 Access Time: 1	
SYSTEM ARCHITECTURE	Connecting	
PCI BUS (v.2.1): (32-bit, 33 MHz)	PC Card Slots, Expansion Bus, Graphics	
ICA DIIC. 16 bit 0 MII-	Video Capture controller, CD-ROM, HDI	)
ISA BUS: 16-bit, 8 MHz	BIOS ROM, KBC, FDD, Sound chip	
MEMORY: 64 Mbit EDO DRAM, 3.3V	22 MD/170 MD	
Standard/ Maximum	32 MB/160 MB	
Speed	60ns	
Hyper Page mode memory access	Yes	
Data width/ Data Bus speed	64 bit/66 MHz	237
BIOS	Yes: (512KB 4Mbit FLASH EEPROM, 3	*
Standards supported	APM v.1.2, PnP v.1.0A, VESA 2.0, DDC	.2, DPMS, DMI v.2.0, ACPI v.1.0
STORAGE	5 1 D'II' - D 4 4 77 CD (D - 1/N) '4-	12/12) D CC 512VD
Removable HDD (2.5" Enhanced IDE)	5.1 Billion Bytes = 4.77 GB (Read/Write	
SELECT BAY DEVICES	DESCRIPTION Onting of Breeff BA24461	<u>WEIGHT</u>
Second Battery	Optional: Part# PA2446U	1.15 lbs.
Battery Type  Madylar EDD (2.5" 1.44MB)	Li-Ion (10.8V, 3600mAH)	1.13 lbs.
Modular FDD (3.5" 1.44MB) FDD Dimensions	Included/Swappable with CD-ROM 4.57"L x 3.78"W x .5"H	.60 lbs.
		.00 108.
Simultaneous FDD & CD-ROM Support FDD Adapter Dimensions	Yes: External FDD adapter included 7.0"L x 5.5"W	.25 lbs.
Modular HDD (2.5" Enhanced IDE)	Optional/For use in SelectBay only: Par	
Capacity	4.1 billion bytes = 3.82GB (Read/Write:	
Weight	4.1 billion bytes = 3.82GB (Read/ Wille55 lbs.	13msec/14msec), Burrer. 312Kb
Modular CD-ROM: Toshiba XM-1602B	.55 108.	
5.25" 20X Max. speed	Installed/ For use in SelectBay only	
Weight	.70 lbs	
Interface	.ATAPI (Enhanced IDE)	
Random Access Time	135 ms @ 20X Max speed	
Average Sustained Transfer Rate	3420KB/sec @ 20X Max speed; 2394KB	/sec @ 14X Average speed
Supported Disc formats	Red Book, Yellow Book, CD-ROM XA, CD-I Bridge (Photo-CD)	
Supported Disc formuts	CD-I, CD-I Ready, CD-G, Multisession (	
Modular DVD-ROM <sup>1</sup> : Toshiba SD-C2002	Optional	Thoto CD, CD LATE, CD KII
Operation modes	DVD-ROM	CD-ROM
Access Speed	2X	16X
Random Access Time	180ms	120ms
Sustained Data Transfer rate	2,700 KB/sec	2,400 KB/sec
Storage space/disk	4.7 GB	4.7 GB
Not intended for movie playback. For storage use only		35

<sup>1.</sup> Not intended for movie playback. For storage use only

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750CDT: PA1253U-T2C 5.1 Billion Bytes = 4.77 GB				
DISPLAY		5.1 Billion Bytes = 4.77 GB		
Туре		13.3"Diagonal TFT Active Matrix		
Dot Pitch		.26mm x .26mm		
Contrast Ratio		100:1 (min)		
VIDEO				
Memory: 8Mbit SGRAM, 3.3V	I	4 MB		
Access Speed		83 MHz with Hyper-page mode supp	ort	
Data Bus Width/Clock Sp	need	64-bit/33 Mhz		
Graphic Controller	recu	04 Oly 33 WIIIZ		
PCI Bus Architecture w/b	urst mode	Yes: 32-bit, 33 MHz		
Standards supported	urst mode	DPMS, PnP v.1.0A, VESA 2.0		
DuoView <sup>TM</sup> Device suppo	ort <sup>2</sup>		the same image) on following screen	
Duo view Device suppo	Л	Allows display of different images (or the same image) on following screen combinations: notebook/external monitor; notebook/TV; external monitor/TV		
Controller Chip		S3 Virge MX 3D (= 86C260)	itor, notebook/ r v , external monitor/ r v	
64-bit BitBLT Engine		Yes		
2D Supported Features	,		oot Drow	
3D Supported Features		BitBLT, LINEdraw, H/W Cursor, Dir	CCIDIAW	
Modeling	•	Fogging		
Shading		Fogging Flat shading, Gouraud shading		
Rendering		Ç	nti-aliasing, MIP mapping, Z-buffering	
Direct3D support		Yes	nu-anasing, wire mapping, z-buriering	
* *		Yes		
OpenGL Digital Video Accelerator		ies		
•	mai a m			
YUV Color Space Conve	rsion	Off-loads conversion from CPU for higher performance full motion video without compromising picture quality or frame rate.		
Sasling/Interpolation		Yes: vertical & horizontal	of frame rate.	
Scaling/ Interpolation Zoomed Video Port Suppo	out.			
DirectVideo support	JIι	Yes: vertical & horizontal		
DirectMPEG		Yes:w/Game SDK driver fr/Microsoft Yes		
TV Encoder support		Yes: NTSC/PAL video out, and S-Vic	loo out with flighter raducing filter	
INTERNAL VIDEO SUPPO	DT	•		
Smaller Image	640 x 480	<u>Colors</u> 24-bit (16.7M)	Refresh Rate (Non-Interlaced) N/A	
	800 x 600		N/A N/A	
Smaller Image		24-bit (16.7M)		
Full Screen	1024 x 768	24-bit (16.7M)	N/A	
Virtual Display Mode	1280 x 1024	16-bit (64K)	N/A	
Virtual Display Mode	1600 x 1200	8-bit (256)	N/A	
EXTERNAL VIDEO SUPPO		<u>Colors</u>	Refresh Rate (Non-Interlaced)	
	640 x 480	24-bit (16.7M)	85 Hz	
	800 x 600	24-bit (16.7M)	85 Hz	
	1024 x 768	24-bit (16.7M)	85 Hz	
	1280 x 1024	16-bit (64K)	75 Hz	
NOTINE ONZODENA	1600 x 1200	8-bit (256)	42 Hz (Interlaced)	
SOUND SYSTEM		V 1 00	0.042 1 W 11 1.10 7.12	
Chipsets:		Yamana 3D sound effect-enabled OPL3	3-SA3 and Wavetable-enabled OPL4-ML	
Functions supported				
Sound formats supported:		SoundBlaster Pro™ v.3.01, MIDI, Windows Sound System v.2.0		
16 bit stereo audio playback/record		Yes: w/48kHz maximum sampling rate		
Full duplex function		Yes: including simultaneous playback and record		
_		CD-ROM audio, Zoomed Video audio (stereo), CardBus audio (monaural)		
Mixing				
Mixing DirectSound support		Yes: with Windows 95 Game SDK driv		
Mixing			er from Microsoft	

<sup>2.</sup> Future operating systems may support simultaneous display of different resolutions on mutiple devices.

## **TECRA 750CDT Product Specifications**

	750CDT: PA1253U-T2C
	5.1 Billion Bytes = 4.77 GB
INTERNAL MODEM (All models)	K56 Flex Upgradeable with DSVD, V.34 and V.80 support for Video Conferencing
Data support	
Protocols supported	Bell-103/212A, CCITT-V.21/V.22, V.23, V.22bis, V.32, V.32bis, V.34
Error correction	MNP 1-4
Data compression	MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression
Fax support	Fax class 1, Class 1 ECM
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Cellular support	US Cellular support under Windows 95 only
Protocols supported (Phone)	Bell-103/212A, CCITT-V.21/V.22, V.23, V.22bis, V.32, V.32bis, V.34
Protocols supported (Fax)	V.21 ch2, V.27 ter, V.29, V.17
Fax class	Fax class 1, Class 1 ECM
Phones supported <sup>3</sup>	Motorola Micro TAC (DPC550, Alpha, Lite, and Ultralite) and Motorola Elite <i>only</i>
Telephony Functions (Windows 95 only)	
Standard software	Ring Zero RingCentral telephony software
	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume
	Incoming Call Discrimination, Caller ID
DSVD protocols supported	ITU-T V.70, V.75, V.76, G.729, V.80, V.25terA, V.34, V.8bis
Video Conferencing (Windows 95 only)	
Standard software	Intel Video Phone with Proshare Technology 2.0 and Microsoft Netmeeting 2.0
Protocols supported	ITU-T H.323 (Internet video conferencing); H.324 (POTS video conferencing);
	H.245; H.223; G.723; H.263; <b>V.80</b> ; V.25terA; <b>v.34</b> ; V.8bis
Data sharing support	T.121; T.122; T.123; T.124; T.125; T.126; T.127
EXPANSION SLOTS	LOCATION
Two Stacked PC Card Slot <sup>4</sup>	Yes: Left side (CardBus & ZV Card Ready)
32-bit, 3.3V PC CardBus Support	Yes
16-bit, 5.0V PC Card Support	Yes
Two Internal Memory Slots	Yes: Below left-half of the palm rest (above main HDD)
EXPANSION PORTS	<u>LOCATION</u>
One 9-Pin Serial (16550 UART compliant)	Yes: Rear of unit
One 15-Pin RGB (SVGA video)	Yes: Rear of unit
One Expansion Bus	Yes: Rear of unit (for use with Docking Station or Port Replicator)
One 25-Pin Parallel (8 bit ECP)	Yes: Rear of unit
One DC IN port	Yes: Rear of unit
Noteworthy security lock port	Yes: Rear of unit
Microphone (3.5mm mini jack, monoaural)	Yes: Rear of unit
Headphone (3.5mm mini jack, stereo, $16\Omega$ min)	Yes: Rear of unit
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes: Rear of unit
Line-out (3.5mm mini jack, stereo, 0.7V rms)	Yes: Rear of unit
One (PS/2) 101 Keyboard/Mouse port	Yes: Rear of unit (supports "Y"Connector)
One S-Video out port	Yes: Rear of unit
One NTSC/PAL out port	Yes: Rear of unit
Two Fast Infrared ports (front and back)	Yes: Rear of unit (IrDA 1.1:4 Mbps compatible)
One External Floppy Drive port	Yes: Left side
Two Universal Serial Bus (USB) ports	Yes: Left side (Supports 127devices. Throughput Rate: 12Mbits/sec.)
One Power switch	Yes: Left side
One Reset Button	Yes: Left side
Noteworthy security lock port	Yes: Left side (Use when docked)
One RJ-11 port for internal modem (supplied)	Yes: Right side
One Cellular Modem port	Yes: Right side
One External Camera port	Yes: Right side (Proprietary 26-pin connector)

<sup>3.</sup> Requires the purchase of appropriate cellular cable: NWMICROTAC or NWELITE. 4. Slot supports two Type II PC Cards or one Type III PC Card.

## **TECRA 750CDT Product Specifications**

	750CDT: PA1253U-T2C		
CAMERA	<b>5.1 Billion Bytes = 4.77 GB</b> Dimensions: 5.63"L x 1.14"W x .79"D	Weight: 25 lbs	
Туре	1/4-inch CCD with 640 x 480 effective		
Lens (Manual Focus)	F2.8, f = 4.6 mm	pineis	
Focusing range	> 10 cm, by manual focus		
Viewing angle of Center	Horizontal: ±22.5 degrees (45° total); V	Vartical: +16.0 dograps (22.8° total)	
Minimum illumination	40 luxes	reflical. ±10.9 degrees (33.8 total)	
Tilting angle	-50 to +50 degrees		
Panning angle	-45 to +225 degrees (horizontal) 50cm		
Interface cable length		1/10 000 (22)	
Automatic Light Control (ALC)	Yes: AGC (0 db~ +12db); ELC (1/60 ~	1/10,000 sec)	
White Balance ATW	Yes		
KEYBOARD	V 12 1. 1' 1 f ' 1 G	1 (0 IV I 1 !!T!!)	
84keys, 3mm Travel	Yes: 12 dedicated function keys; Curso	r control (8 Keys, Inverted "1")	
Numeric keypad (Integrated Overlay)	Yes		
Integrated Pointing Device	AccuPoint™		
Enhanced Port Replicator II (Optional)	Part# PA2716U		
Two Type III CardBus ready PC Card slots	Yes: each slot supports one card		
Supported Interfaces	Serial, parallel, PS/2 keyboard, PS/2 mo		
	lock slot, joystick/MIDI, audio line-in,	line-out, headphone, microphone	
Desk Station V Plus (Optional)	Part# PA2710U		
Supported Interfaces	(2) Full length 32-bit PCI/16-bit ISA sle	ots; (1) Half Length 32-bit PCI slot;	
	(2) Type III PC Card slots; (1) SCSI II;	(1) 5.25" half height drive bay;	
	(1) Select Bay for Modular FDD or CD	-ROM	
Ports	Serial, parallel, PS/2 keyboard, PS/2 mo	ouse, DC in, SVGA monitor, FDD port,	
	lock slot , joystick/MIDI, audio line-in, line-out, headphone, microphone		
Other features	Designed for Windows 95 and PNP; Ho	ot Docking Support	
POWER	-	= ===	
60W Autosensing External AC Adapter	5.51"L x 2.95"W x .98"90 lbs. (Par	rt#:NW2444U)	
Input (Voltage/Frequency)	100-240V; 50-60Hz		
Output (Voltage/Amps)	15 VDC; 4.0A (max)		
Battery Type: Li-Ion (3.6V 1200mAh, 12 cells)	Yes: Part# PA2445UR		
Battery Life: (One battery/two batteries)	3.5+ hrs. max./ 7.0+ hrs. max.		
Recharge Time: Main Battery <sup>4</sup>		ort Replicator Docked In Desk Station	
(Computer Off/On)		2~3.5 hrs. 3.5 hrs./4.1~7.3 hrs.	
Power Savings	MaxTime®; APM v.1.2 BIOS support		
DIMENSIONS	11.95"W x 9.45"D x 2.13"H		
WEIGHT (includes 1.1 lbs. battery) <sup>5</sup>	7.94 lbs. (with FDD installed); 8.03 lbs. (with CD-ROM installed)		
BUNDLED SOFTWARE: Windows 95; RingZ			
Puma Intellisync 97; Microsoft VidCap software;		<u> </u>	
Intel Video Phone with Proshare Technology 2.0			
CD included: Sony Music Screeners; America O			
SECURITY	Lock slot, Password:power-on, supervis	sor, HDD access, Docking station eject	
WARRANTY	3 YR Parts & Labor (battery 1 year)		
ENVIRONMENTAL SPECIFICATIONS	<b>Operating</b>	Non-operating	
Temperature:	41°F (5°C) to 95°F (35°C)	$-4^{\circ}F$ (-20°C) to 149°F (65°C)	
Thermal Gradient 20° C per hour (max.)		<del></del>	
Thermal Gradient 20 e per nour (max.)	20% to 80% non-condensing	10% to 90% non-condensing	
	20 % to 80 % non-condensing	10 % to 50 % Holl-collectisting	
Relative Humidity: Operating	_	· ·	
Relative Humidity: Operating Altitude: Operating	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)	
Relative Humidity: Operating	_	· ·	

<sup>4.</sup> Recharge time may be longer than indicated, depending on condition of battery, and consumption of power for function performed during recharge: eg. use of LCD, HDD/CD-ROM, sound and modem, CardBus card in Port Replicator or PCI card in Desk Station V Plus. 5. Optional 2nd battery PA2446UR weights 1.15 lbs.