

SATELLITE PRO 440CDX / 440CDT Product Specifications

440CDX:1.44 BillionBytes:PA1241U-H2C **440CDT:**1.44Billion Bytes:PA1241U-T2C

PROCESSOR

Intel Pentium® 133Mhz (2.5v/3.3v) w/MMX	Yes	Yes
External data bus width	64 bit	64 bit
External data/address bus speed	66 MHz	66 MHz
Integrated Coprocessor	Yes	Yes
Processor Cache	32KB: (16KB code; 16KB data)	32KB: (16KB code; 16KB data)

LEVEL 2 (L2) CACHE

	Yes: 256KB	Yes: 256KB
Data Bus Width	64 bit	64 bit
Data Bus Speed	66 MHz	66 MHz
DATA RAM:	Yes	Yes
1 Mbit Pipelined Burst Synchronous SRAM	(32K x 32bit, 3.3V) x 2	(32K x 32bit, 3.3V) x 2
Access Time	8 ns	8 ns

SYSTEM ARCHITECTURE (All models)

PCI BUS (v.2.1): (32-bit, 33 MHz)	Connecting Devices: PC Card Slots, Expansion Bus, Graphics Controller, Modem DSP
ISA BUS: 16-bit, 8.25 MHz	Connecting Devices: BIOS, FDD, HDD, CD-ROM, Sound chip, KBC

MEMORY: 16Mbit EDO DRAM, 3.3V

Standard	16 MB	16 MB
Maximum	144 MB	144 MB
Speed	60ns	60ns
Hyper Page mode memory access	Yes	Yes
Data width	64 bit	64 bit
Local Bus Clock Speed	66MHz	66 MHz
BIOS (2 Mbit FLASH EPROM)	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (through Win95)	
PnP 1.0a SUPPORT	Yes	Yes

DISPLAY

Type	Fast Scan High Contrast Color	TFT Active Matrix Color
Size	12.1" Diagonal	12.1" Diagonal
Dot Pitch	.30mm x .30mm	.30mm x .30mm
Contrast Ratio	40:1 (avg)	100:1

VIDEO

Memory: 4Mbit EDO DRAM, 3.3V	2 MB	2 MB
Speed	50ns	50ns
Hyper Page mode support	Yes	Yes
Controller Chip	C&T F65554	C&T F65554
Data Bus Width	64-bit	64-bit
PCI Bus Architecture w/burst mode	Yes: 32-bit, 30 MHz	Yes: 32-bit, 33 MHz
Graphics Accelerator:	Yes with 64-bit BitBLT support	Yes with 64-bit BitBLT support
DirectDraw, Direct3D, H/W Cursor	Yes	Yes
Digital Video Accelerator:	Yes	Yes
YUV-to-RGB conversion, Interpolation	Yes	Yes
Zoomed Video Port Support	Yes	Yes
DirectVideo, DirectMPEG, Scaling	Yes with software driver	Yes with software driver
Color Palette	16.7M colors	16.7M colors
Internal Resolution	800 x 600 x 256K/256K colors	800 x 600 x 16.7M/16.7M colors
Smaller Image	640 x 480 x 256K/256K colors	640 x 480 x 16.7M/16.7M colors
Virtual Display Mode	1024 x 768 x 64K/256K colors	1024 x 768 x 64K/64K colors
Virtual Display Mode	1280 x 1024 x 256/256K colors	1280 x 1024 x 256/256K colors
External Resolution	<u>Colors/Palette</u>	<u>Colors/Palette</u>
640 x 480	16.7M colors/16.7M colors	16.7M colors/16.7M colors
800 x 600	16.7M colors/16.7M colors	16.7M colors/16.7M colors
1024 x 768	64K colors/64K	64K colors/64K
1280 x 1024	256 colors/256K	256 colors/256K
Refresh Rate @ 1024x768/ 64k colors Non-Interlaced ¹	Vert.: 60Hz	Vert.: 60Hz

1. Refresh Rate @ 800 x 600 /64K colors Non-Interlaced : Vert.: 85 Hz

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STORAGE

Removable HDD (2.5" Enhanced IDE) 1.44 billion bytes=1.34GB (12-14msec) 1.44 billion bytes=1.34GB (12-14msec)

SELECT BAY DEVICES

Second Battery

Battery Type Optional: Part# PA2451UR (Includes battery adapter)

Li-Ion (10.8V, 3400mAH)

Modular FDD (3.5" 1.44MB)

Included/Swappable with CD-ROM Included/Swappable with CD-ROM

FDD Dimensions 4.57"L x 3.8"W x .59"H 4.57"L x 3.8"W x .59"H

FDD Weight Weight: .29 lbs Weight: .29 lbs

Simultaneous FDD & CD-ROM Support

Yes: External FDD adapter included Yes: External FDD adapter included

FDD Adapter Dimensions 7.0"L x 5.5"W 7.0"L x 5.5"W

FDD Adapter Weight .25 lbs .25 lbs

Modular HDD (2.5" Enhanced IDE)

Capacity Optional/Swappable with FDD Optional/Swappable with FDD

2.168 billion bytes=2.02GB (13msec) 2.168 billion bytes=2.02GB (13msec)

Modular CD-ROM: Toshiba XM-1502B

5.25" 10x-Average speed Installed/Swappable with FDD Installed/Swappable with FDD

Weight .6 lbs .6 lbs

Interface .ATAPI (Enhanced IDE) .ATAPI (Enhanced IDE)

Random Access Time 150 ms 150 ms

Average Sustained Transfer Rate 1,500 KB/sec 1,500 KB/sec

Supported Disc formats CD-DA, CD-ROM, CD-ROM XA, CD-Bridge (Photo-CD, Video-CD),
CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Plus)

KEYBOARD

84/86 keys, 3mm Travel Yes Yes

12 dedicated function keys Yes Yes

Cursor control (8 Keys, Inverted "T") Yes Yes

Numeric keypad (Integrated Overlay) Yes Yes

Integrated Pointing Device AccuPoint™ AccuPoint™

EXPANSION SLOTS

Two Stacked PC CardBus Slots Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.

Support Standards Yes: Supports 32-bit, 3.3V PC CardBus cards **and** 16-bit, 5.0V PC Card standards

Internal Memory Slot (One only) Yes Yes

EXPANSION PORTS

LOCATION

One RJ-11 port for internal modem No: Optional with 440CDX Yes: Right side

One 9-Pin Serial (16550 UART compliant) Yes: Rear of unit Yes: Rear of unit

One 25-Pin Parallel (8 bit ECP) Yes: Rear of unit Yes: Rear of unit

One 15-Pin RGB (SVGA video) Yes: Rear of unit Yes: Rear of unit

Fast Infrared port (IrDA1.1:4Mbps compatible) Yes: Rear of unit Yes: Rear of unit

One (PS/2) 101 Keyboard/Mouse port Yes: "Y"-connector supported Yes: Rear of unit ("Y"-connector supported)

One External Floppy Drive port Yes: Left side Yes: Left side

Universal Serial Bus (USB) -- *Both models* Yes: Rear of unit (Supports 127 devices. Throughput Rate: 12Mbits/sec.)

Microphone (3.5mm mini jack, stereo) Yes: Front of unit Yes: Front of unit

Headphone (3.5mm mini jack, stereo) Yes: Front of unit Yes: Front of unit

Line-in (3.5mm mini jack, stereo, 2V rms) Yes: Front of unit Yes: Front of unit

Noteworthy security lock port Yes: Right side Yes: Right side

INTERNAL MODEM

Type *Optional: Part# PA2827U* *Standard*
33.6 /14.4 Kbps Data/Fax/Voice modem *with V.80 for Video Conferencing*

DAA support *Canadian & Euro/Australian DAA*

Protocols supported Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34,

Error correction MNP 1-4

Data compression MNP 5, CCITT V.42 bis

Fax support Fax class 1

Protocols supported V.21 ch2, V.27 ter, V.29, V.17

Supported Functions Speaker phone, Telephony Answering Machine, Ring Wake-up Resume

Incoming Call Discrimination, Caller ID

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NoteDock III™ Port Replicator (Optional)	Part# PA2717U
(2) Type III PCI/CardBus ready PC Card slots Supported Interfaces	Yes: each slot supports one card Serial, USB, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA port, lock slot , joystick/MIDI, audio line-in, line-out, headphone, microphone

POWER

Autosensing External AC Adapter	Yes: 5.51”L x 2.95”W x .98”D --- .75 lbs.
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 3A (max)
Power Output (Watts)	45W
Battery Type: Li-Ion (10.8V, 3600mAH)	Yes: Part# PA2487UR
Battery Life: (Full Power/Low Power)	2+ hrs. (max)
Recharge Time (Computer Off/On)	2-3 hrs.(Off) /4-10 hrs.(On)
MaxTime® Power Management	Yes

SOUND SYSTEM (All Models)

Chipset	Yamaha OPL3-SA3
16 bit stereo audio playback/record	Yes
Maximum Sampling Rate	48kHz
FM Synthesis support	Yes
Full duplex function	Yes
Sound formats supported:	SoundBlaster Pro™, .WAV, MIDI, Zoomed video port audio (stereo), CardBus audio (monaural), CD-ROM audio
3D Sound Support	Yes
DirectSound, Direct3DSound	Yes: with Windows 95 Game SDK driver from Microsoft
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)

DIMENSIONS	11.95”W x 9.4”D x 2”H	11.95”W x 9.4”D x 2”H
WEIGHT (includes .86 lbs. battery)	6.9 lbs.	6.9 lbs.

BUNDLED SOFTWARE (All Models)²	Windows 95 only on Satellite Pro 445CDX and CDT models.	
User selectable Windows®95 <i>or</i> Windows® for Workgroups 3.11 and MS-DOS 6.22® 6.22 w/Special Enhancements; Puma Tranxit (infrared software), Video for Windows, Intel Indeo Video, Mediamatics Arcade Pak , MagiCDisk, Fn-esse, SystemSoft Card & Socket Services, Online documentation, Online Registration; Syncho Software (on 440CDT only)		

SECURITY	Lock slot; power-on, supervisor, & HDD password; screen blank; keyboard lock	
WARRANTY²	3 YR Parts / 1 YR. Labor	3 YR Parts / 1 YR. Labor

ENVIRONMENTAL SPECIFICATIONS

(All Models)	<u>Operating</u>	<u>Non-operating</u>
Temperature	41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)
Thermal Gradient: 20° C per hour (max.)	N/A	N/A
Relative Humidity	20% to 80% non-condensing	10% to 90% non-condensing
Altitude:	-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:	10G; 1.5G w/CD-ROM installed	60G; 50G w/CD-ROM installed
Vibration:	0.5G; 0.25G w/CD-ROM installed	1G; 1G w/CD-ROM installed

² Satellite Pro 445CDX (Part# PA1241U-H6C) and Satellite Pro 445CDT (Part# PA1241U-T6C) are the Retail equivalents of the Satellite Pro 440CDX and Satellite Pro 440CDT respectively, but come with a **1 Year Parts & 1 Year Labor Warranty** and the following additional Windows 95 software: Microsoft Works, Microsoft Outlook, Microsoft Money, and Microsoft Golf, Encarta 97, and Quicken SE.