

SATELLITE PRO 470CDT Product Specifications

470CDT: 2.1 Billion Bytes: PA1255U-T2C

PROCESSOR

Intel Pentium® 200MHz (1.8v/2.5v) w/MMX	Yes
External data bus width	64 bit
External data/address bus speed	66 MHz
Integrated Coprocessor	Yes
Processor Cache	32KB: (16KB code; 16KB data)

LEVEL 2 (L2) CACHE

	Yes: 256KB
Data Bus Width	64 bit
Data Bus Speed	66 MHz
DATA RAM:	Yes
Type of cache memory	1 Mbit Pipelined Burst Synchronous SRAM, 2.5v
Access Time	8 ns

SYSTEM ARCHITECTURE

PCI BUS (v.2.1): (32-bit, 33 MHz)	Connecting Devices: PC Card Slots, Expansion Bus, Graphics Controller, Modem DSP
ISA BUS: 16-bit, 8.3 MHz	Connecting Devices: BIOS, FDD, HDD, CD-ROM, Sound chip, KBC

MEMORY: 64Mbit EDO DRAM, 3.3V

Standard	32 MB
Maximum	160 MB
Speed	60ns
Hyper Page mode memory access	Yes
Data Bus width	64 bit
Local Bus Clock Speed	66 MHz
BIOS (256KB: 2 Mbit FLASH EPROM)	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (through Win95); PCI
PnP 1.0a SUPPORT	Yes

DISPLAY

Type	TFT Active Matrix Color (800 X 600 resolution)
Size	12.1" Diagonal
Dot Pitch	.30mm x .30mm
Contrast Ratio	100:1 (min)

VIDEO

Memory: 4Mbit EDO DRAM, 3.3V	2 MB		
Speed	50ns		
Hyper Page mode support	Yes		
Controller Chip	C&T F65555		
Data Bus Width	64-bit		
PCI Bus Architecture w/burst mode	Yes: 32-bit, 30 MHz		
Graphics Accelerator:	Yes with 64-bit BitBLT support		
DirectDraw, Direct3D, H/W Cursor	Yes		
Digital Video Accelerator:	Yes		
YUV-to-RGB color space conversion	Yes		
Scaling/Interpolation	Yes		
Zoomed Video Port Support	Yes		
DirectMPEG	Yes		
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft		
Color Palette	16.7M colors		
Internal Support	Resolution	Colors Support	
Full Screen	800 x 600	16.7M colors	
Smaller Image	640 x 480	16.7M colors	
Virtual Display Mode	1024 x 768	64K colors	
Virtual Display Mode	1280 x 1024	256 colors	
External Support	<u>Resolution</u>	<u>Colors Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</u>
	640 x 480	16.7M colors colors	85Hz @ 64K color
	800 x 600	16.7M colors colors	85Hz @ 64K color
	1024 x 768	64K colors	60 Hz @ 64K color
	1280 x 1024	256 colors	60 Hz @ 64K color

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STORAGE

Removable HDD (2.5" Enhanced IDE) 2.168 Billion bytes = 2.02 GB (12msec read/14msec write)

SELECT BAY DEVICES

Second Battery

Battery Type

Optional: Part# PA2451UR (Includes battery adapter)

Li-Ion (10.8V, 3400mAH)

Modular FDD (3.5" 1.44MB)

FDD Dimensions

Included/Swappable with CD-ROM

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

FDD Weight

Weight: .29 lbs

Simultaneous FDD & CD-ROM Support

Yes: External FDD adapter included

FDD Adapter Dimensions

7.0"L x 5.5"W

FDD Adapter Weight

.25 lbs

Modular HDD (2.5" Enhanced IDE)

Capacity

Optional/Swappable with FDD: Part# PA2609U

2.1 billion bytes=2.02 GB (13msec)

Modular CD-ROM: Toshiba XM-1502B

5.25" 10 x-Average speed

Installed/Swappable with FDD

Weight

.4 lbs

Interface

.ATAPI (Enhanced IDE)

Random Access Time

150 ms

Average Sustained Transfer Rate

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 with Windows 95 key support

12 dedicated function keys

Yes

Cursor control (8 Keys, Inverted "T")

Yes

Numeric keypad (Integrated Overlay)

Yes

Integrated Pointing Device

AccuPoint™

EXPANSION SLOTS

Two Stacked PC Card 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

EXPANSION PORTS

One RJ-11 port for internal modem (supplied)

Yes

One 9-Pin Serial (16550 UART compliant)

Yes

One 25-Pin Parallel (8 bit ECP)

Yes

One 15-Pin RGB (SVGA video)

Yes

Fast Infrared port (Back only)

Yes: IrDA 1.1:4Mbps compatible

One (PS/2) 101 Keyboard/Mouse port

Yes: "Y"connector supported

One External Floppy Drive port

Yes

Universal Serial Bus (USB) port

Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.

Microphone (3.5mm mini jack, stereo)

Yes

Headphone (3.5mm mini jack, stereo)

Yes

Line-in (3.5mm mini jack, stereo, 2V rms)

Yes

Noteworthy security lock port

Yes

INTERNAL MODEM (*Cellular Ready*)

33.6 /14.4 Kbps Data/Fax/Voice modem *w/V.80 support for Video Conferencing*

DAA support

US/Canada and Euro/Australia

Data support

Protocols supported

Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, **V.80**

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; Video conferencing

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NoteDock III™ Port Replicator (Optional)
 (2) Type III PCI/CardBus ready PC Card slots
 Supported Interfaces

Part# PA2717U
 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

Input (Voltage/Frequency)	Part# PA2450U	
Output (Voltage/Amps)	100-240V; 50-60Hz	
Power Output (Watts)	15 VDC; 3A (max)	
Battery Type: Li-Ion (10.8V, 3600mAH)	45W	
Battery Life: (One battery/Two batteries)	Yes (one standard): Part# PA2487UR	
Recharge Time (Computer Off/On)	Full power: 2+ hrs./4 hrs.	Low power: 2.5/5 hrs.
MaxTime® Power Management	2-3 hrs.(Off) /4-10 hrs.(On) --- (per one battery pack)	
	Yes	

SOUND SYSTEM

Chipsets:	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™ v.3.01, .WAV, MIDI, Windows Sound System 2.0
3D Sound Support	Yes
DirectSound/Direct3DSound support	Yes: with Windows 95 Game SDK driver from Microsoft
Built-in microphone (monoaural)	Yes
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)

DIMENSIONS

	<u>Dimensions</u>	<u>Weight</u>
Notebook	11.95"W x 9.4"D x 2"H	6.97 lbs.
AC Adapter	4.92"L x 2.48"W x 1.0"H	.66 lbs.
Primary Battery (Standard)	6.87"L x 2.76"W x .73"H	.88 lbs.
Select Bay Battery (Optional)	4.55"L x 4.06W x .66"H	.78 lbs.

BUNDLED SOFTWARE

Windows®95; Fn-esse™, Microsoft Internet Explorer; Yamaha Audio Rack; SystemSoft 32-bit (On Backup CD only),
 Puma Intellisync97 (infrared software), SyncroConnect v.1.89 (modem software), Intel Indeo Video, Mediamatics Arcade Pak,
 470CDT User's Guide and Discovery Center

CD's Included: Windows® 95 Companion; Backup CD; Recovery CD

SECURITY

Hardware	Lock slot, screen blank, keyboard lock
Password	Power-on, & Supervisor

WARRANTY

3 YR Parts / 1 YR. Labor

ENVIRONMENTAL SPECIFICATIONS

	<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.)	--	--
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