

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	Resolution	Colors Support
	640 x 480	16.7M colors colors
	800 x 600	16.7M colors colors
	1024 x 768	64K colors
	1280 x 1024	256 colors

Vertical Refresh Rate (Non-Interlaced)
85Hz @ 64K color
85Hz @ 64K color
60 Hz @ 64K color
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

FDD Weight

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

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: 12Mbps/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		
Part# PA2450U		
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 (one standard): Part# PA2487UR		
Battery Life: (One battery/Two batteries)		
Full power: 2+ hrs./4 hrs. Low power: 2.5/5 hrs.		
Recharge Time (Computer Off/On)		
2-3 hrs.(Off) /4-10 hrs.(On) --- (per one battery pack)		
MaxTime® Power Management		
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		
Dimensions		
Weight		
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		
Operating		
Non-operating		
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.)		
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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		