

SATELLITE PRO 490CDT SERIES Product Specifications

490CDT: 4.0 billion bytes: PA1269U-T2C

490CDT-NT: 4.0 billion bytes: PA1269U-T2N

PROCESSOR (All Models)		Intel Mobile Pentium II® 233MHz (1.7v/1.8v/3.3v)	
Integrated Coprocessor		Yes	
Processor Cache (L1) Capacity		32KB: (16KB code; 16KB data)	
LEVEL 2 (L2) CACHE		Yes: 512KB <i>Integrated into CPU</i>	
Type of cache memory		1 Mbit Pipelined Burst Synchronous SRAM (3.3v)	
Access Time		8 ns	
Data Bus Width		64 bit	
Data Bus Speed		66 MHz	
SYSTEM ARCHITECTURE (All Models)		<u>Chipset</u>	<u>Connecting Devices</u>
PCI BUS (v.2.1): (32-bit, 33 MHz)		Intel 440BX	PC Card Slots, Expansion Bus, Modem DSP, FDD, HDD, CD-ROM
PCI66: (32-bit, 66 MHz)		Intel 440BX	Graphic Controller
ISA BUS: (16-bit, 8.3 Mhz)		N/A	BIOS, Sound chip, Keyboard controller
MEMORY: 64Mbit EDO DRAM, 3.3V (All Models)			
Standard		32 MB	
Maximum		160 MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data/Address Bus width		64-bit/32-bit	
Local Bus Clock Speed		66 MHz	
BIOS (All Models)		(512KB: 4Mbit FLASH EPROM)	
Supported standards		APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI, PCI , PnP 1.0a, ACPI (v.1.0)	
DISPLAY (All Models)			
Type		TFT Active Matrix Color	
Size		12.1” Diagonal (800 x 600 resolution)	
Dot Pitch		.3075mm x .3075mm	
Contrast Ratio		100:1 (min)	
VIDEO (All Models)			
Memory: 8Mbit SGRAM , 3.3V		2 MB	
Speed		83 MHz	
Controller Chip		S3 Virge MX 3D (= 86C260)	
Data Bus Width		64-bit	
PCI66 Bus Architecture w/burst mode		Yes	
Bus Clock Speed		66 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		<u>Colors Support</u>	
<u>Resolution</u>			
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 (All Models)

Removable HDD (2.5" Enhanced IDE)	4.0 billion bytes (12msec read/14msec write)
Burst Data Transfer Rate	Ultra DMA33 (33MB/sec) or PIO Mode 4 (14.0MB/sec)

SELECT BAY DEVICES (All Models)

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

4.0 billion bytes (13msec)

Burst Data Transfer Rate

Ultra DMA33 (33MB/sec) or PIO Mode 4 (14.0MB/sec)

Modular CD-ROM (12.7mm Slimline)

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)
 CD-I, CD-I Ready, CD-G, Multisession (Photo-CD, CD-Extra), CD-RW

KEYBOARD (All Models)

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 (All Models)

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 (All Models)

One RJ-11 port for internal modem (supplied)

Yes

One 9-Pin Serial (16550 UART compliant)

Yes

One 25-Pin Parallel (ESP)

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: 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

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INTERNAL MODEM (As Listed)	K56Flex /14.4 Kbps Data/Fax/Voice modem
DAA support	US/Canada and Euro/Australia
Data support (All models)	
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 (All models)	Fax class 1
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Telephony Functions (Windows 95 only)	
Standard software	Ring Zero RingCentral telephony software
Supported Functions	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume Incoming Call Discrimination, Caller ID; Video conferencing

NoteDock III™ Port Replicator (Optional)	Part# PA2717U
(2) Type III PCI/CardBus ready PC Card slots	Yes: each slot supports one card
Supported Interfaces	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 (All models)	
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 (15V, 4000mAH)	Yes (one standard): Part# PA2487UR
Battery Life: (One battery/Two batteries)	<i>Full power:</i> 2+ hrs./4 hrs. <i>Low power:</i> 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 (All models)	
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 (All models)	<u>Dimensions</u>	<u>Weight</u>
Notebook (Weights include Battery: .88 lbs.)	11.95"W x 9.4"D x 2"H	7.0 lbs. w/FDD; 7.0 lbs. w/CD-ROM
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 models)
Windows®95; Fn-esse™, Microsoft Internet Explorer; Ring Central (modem software), Puma Intellisync97 (infrared software), Yamaha Audio Rack; Intel Indeo Video; Direct X5 driver, Mediamatics Arcade Pak; America Online, CompuServe, AT&T WorldNet, Online documentation, SystemSoft Cardworks 32-bit (on CD only)	

CD's Included: Windows® 95 Companion CD; Enhanced/Recovery CD

BUNDLED SOFTWARE	(Windows NT models)
Windows NT 4.0; Service Pack 3.0; Yamaha OPL3-SA3 Audio Rack; Puma Intellisync 97; Microsoft Internet Explorer (3.02); SystemSoft CardWorks 32-bit; Toshiba NT 4.0 Utilities; 490CDT User's Guide and Discovery Center	
CD's Included: Windows NT 4.0 CD; Windows NT Service Pack 3.0	

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SECURITY (All models)

Hardware	Lock slot, screen blank, keyboard lock
Password	Power-on, Supervisor, & HDD password (both drives)

WARRANTY (All models)

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