

SATELLITE 4020CDT Product Specifications

MODEL	4020CDT/6.4 billion bytes		
PART NUMBER	PAS402U-T2CW8		
PROCESSOR	Intel Mobile Pentium® II 300Mhz (1.7v/1.8v/3.3v)		
Integrated Coprocessor	Yes		
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)		
LEVEL 2 (L2) CACHE	Yes: 512KB Integrated into CPU		
Type of cache memory	2 Mbit Pipelined Burst Synchronous SRAM (2.5v)		
Access Time	5 ns		
Data Bus Width	64 bit		
Data Bus Speed	66 MHz		
SYSTEM ARCHITECTURE	<u>Chipset</u>	<u>Connecting Devices</u>	
PCI BUS (v.2.1): (32-bit, 33 MHz)	Intel 440BX	Graphics Controller	
ISA BUS: 16-bit, 8.33 MHz	N/A	BIOS, KBC, Sound chip	
MEMORY: 64Mbit SDRAM, 3.3V			
Standard	64 MB (32MB onboard; 32MB in memory slot --- no slots free)		
Maximum	160 MB (Maximum expansion requires removal of standard 32MB memory card)		
Speed	60ns		
Hyper Page mode memory access	Yes		
Data Bus width	64 bit		
Local Bus Clock Speed	66 MHz		
BIOS (512KB: 4Mbit FLASH EPROM, 5V)	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2B, DMI (v.2.0); PCI BIOS PnP 1.0a, ACPI		
DISPLAY			
Type	TFT Active Matrix Color (1024 x 768)		
Size	13.3" Diagonal		
Dot Pitch	.3075mm x .3075mm		
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 65555		
Data Bus Width	128-bit		
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz		
Graphics Accelerator:	Yes with 64-bit BitBLT support		
2D graphics support	BitBLT, DirectDraw, H/W Cursor		
3D graphics support	Direct3D		
Digital Video Accelerator:	Yes		
YUV-to-RGB color space conversion	Yes		
Scaling/Interpolation	Yes		
DirectMPEG	Yes		
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft		
Color Palette	16.7M colors		
Internal Support	<u>Resolution</u>	<u>Colors Support</u>	
Full Screen	1024 x 768	64K colors	
Smaller Image	640 x 480	16.7M colors	
Smaller Image	800 x 600	16.7M 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	85Hz @ 64K color
	800 x 600	16.7M 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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ALL-IN-ONE DESIGN	
STORAGE	
Removable HDD (2.5" Enhanced IDE)	6.4 billion bytes (13msec) <i>with 512KB Buffer</i> --- 1 screw service removable
Height	12.7mm
Burst Data Transfer Rate	Ultra DMA Mode 2 (33.3MB/s); PIO Mode 4 (16.7MB/s)
FDD (3.5" 1.44MB; 12.7mm high)	Yes
Simultaneous FDD & CD-ROM Support	Yes: two independent units
CD-ROM: (5.25" ; 12.7mm high, .62 lbs.)	24X Maximum Speed (14X-Average speed)
Interface	.ATAPI (Enhanced IDE)
Random Access Time	130 ms
Average Sustained Transfer Rate	3,600 KB/sec
Burst Data Transfer Rate	PIO Mode 4 (16.7MB/sec); Multi Word DMA Mode2 (16.6MB/sec)
Supported Disc formats	CD-DA, CD-ROM, CD-R, CD-ROM XA, CD-I FMV, Photo CD (Multi-session) Video CD, CD Extra (CD Plus), CD-G, CD-RW (read only)
PC Card MODEM (Bundled) --	
Data support	3Com-Noteworthy 56K PC Card Modem
Protocols supported	Bell-103,& 212A, V.23, V.22, V.22bis, V.32, V.32bis, V.34, V.34+, V.90
Error correction	V.42/MNP 2-5
Data compression	MNP 5, CCITT V.42 bis
Fax support	Group 3, EIA/TIA, Fax class 1
Protocols supported	V.17, V.21 Channel 2, V.27 ter, V.29, V.33
Command Set	Hayes, Microcom compatible AT commands
SOUND SYSTEM	
Chipset:	Yamaha Sound System
16-bit stereo audio playback/record	Yamaha OPL3-SA3
Maximum sampling rate	Yes
FM Synthesis support	48 kHz
Full duplex function	Yes (Soft Wave Table included)
Sound formats supported:	Yes
3D Sound Support	SoundBlaster Pro™ V3.01, Windows Sound System V2.0
Direct3DSound, DirectSound support	Yes
Speaker system	Yes: with Windows 98 Game SDK driver from Microsoft Two top-mounted stereo speakers (28mm, 8 Ω)
KEYBOARD	
84/86 keys, 3mm Travel	Yes with Windows 98 key support & 12 dedicated function keys
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 <i>and</i> 16-bit, 5.0V PC card standards
Internal Memory Slot (One only)	Yes
EXPANSION PORTS	
One 9-Pin Serial (16550 UART equivalent)	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
Universal Serial Bus (USB) port	Yes: Supports 127devices. 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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PART NUMBER	Win98 Version	PAS402U-T2CW8
POWER		
<i>Autosensing External AC Adapter</i>	6.87"L x 2.76"W x 0.73"H --- .86 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 (one standard): Part# PA2487URN	
Battery Life: (Full Power)	2.5+ hrs.	
Recharge Time (Computer Off/On)	2.5+/10 hrs. <i>depending on the computer function performed</i>	
Power Saving Features	APM v.1.2 BIOS, Processing speed change, Auto Resume, Display Auto Off HDD Auto Off, CPU Sleep mode, LCD Brightness switch (software)	
DIMENSIONS		
	Dimensions	Weight
Notebook	11.97"W x 9.4"D x 2.13"H	7.0 lbs.
AC Adapter	6.87"L x 2.76"W x 0.73"H	.86 lbs.
Battery (Standard)	6.87"L x 2.76"W x 0.73"H	.88 lbs.
BUNDLED SOFTWARE (Windows 98)		
Windows®98; Prodigy Internet; Symantec Norton Antivirus Scanner 4.0; Mediamatics Arcade Pak; Ring Zero Ring Central Dialer application, Intel Indeo Video, Fn-esse™, Online documentation, Online registration		
<i>CD's Included:</i> Enhanced Recovery CD		
SECURITY		
	Hardware	Cable Lock slot, PC Card lock slot (by screw), HDD (by screw only)
	Password	Power-on, Supervisor, & HDD password
	Miscellaneous	screen blank, keyboard lock
WARRANTY		
1 YR Parts / 1 YR. Labor / 1 YR. Battery		
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.)	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