

TECRA 520CDT SERIES Product Specifications

520CDT: 2.02 GB: PA1246U-T2A

520CDT: 3.87 GB: PA1246U-T2A4

PROCESSOR

Intel Pentium® 166Mhz (2.5v/3.3v) w/MMX	Yes	Yes
External data bus width	64 bit	64 bit
External data/address bus speed	66 MHz	66.6 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	66.6 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	
ISA BUS: 16-bit, 8 MHz	Connecting Devices: BIOS, FDD, HDD, CD-ROM, RTC, KBC	

MEMORY: 64Mbit EDO DRAM, 3.3V

Standard/Maximum	32 MB/160MB	32 MB/160MB
Speed	60ns	60ns
Hyper Page mode memory access	Yes	Yes
Data width	64 bit	64 bit
Local Bus Clock Speed	66MHz	66.6 MHz

BIOS (2Mbit FLASH EPROM, 120ns) PnP 1.0a SUPPORT

	Yes: supports APM (v.1.2); VESA (v2.0); DPMS, DCC2, DMI (through Win95); PCI	
	Yes	

DISPLAY

Type	TFT Active Matrix Color	TFT Active Matrix Color
Size	12.1" Diagonal	12.1" Diagonal
Dot Pitch	.30mm x .30mm	.30mm x .30mm
Contrast Ratio	100:1	100:1

VIDEO

Memory: 4Mbit EDO DRAM, 3V	2 MB	2 MB
Speed	50ns	50ns
Hyper Page mode support	Yes	Yes
Controller Chip	C&T B65555	C&T B65555
Data Bus Width	64-bit	64-bit
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 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 color space conversion	Yes	Yes
Scaling	Yes	Yes
Zoomed Video Port Support	Yes	Yes
Interpolation	Yes	Yes
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft	Yes:w/Game SDK driver fr/Microsoft
Color Palette	16.7M colors	16.7M colors
Internal Resolution	800 x 600 x 16.7M/16.7M colors	1024 x 768 x 64K/64K colors
Smaller Image	640 x 480 x 16.7M/16.7M colors	640 x 480 x 64K/64K colors
Smaller Image	N/A	800 x 600 x 64K/64K colors
Virtual Display Mode	1024 x 768 x 64K/64K colors	N/A
	1280 x 1024 x 256/256K colors	1280 x 1024 x 256/64K 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	60Hz Vertical	60Hz Vertical

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520CDT: 3.87 GB: PA1247U-T2A4

STORAGE

Removeable HDD (2.5" Enhanced IDE)	2.168 billion bytes = 2.02 GB (13msec)	4.0 billion bytes = 3.87 GB (13msec)
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SELECT BAY DEVICES

Second Battery

Battery Type

Optional: Part# PA2451UR (Includes battery adapter)

Li-Ion (10.8V, 3600mAH)

Modular FDD (3.5" 1.44MB)

FDD Dimensions

Included/Swappable with CD-ROM

Included/Swappable with CD-ROM

FDD Weight

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

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

Simultaneous FDD & CD-ROM Support

FDD Adapter Dimensions

Weight: .29 lbs

Weight: .29 lbs

FDD Adapter Weight

Yes: External FDD adapter included

Yes: External FDD adapter included

Modular HDD (2.5" Enhanced IDE)

Capacity

Optional/Swappable with FDD

Optional/Swappable with FDD

2.1 billion bytes=2.02 GB (13msec)

2.1 billion bytes=2.02 GB (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, Keyboard Tilt	Yes	Yes
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12 dedicated function keys	Yes	Yes
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Cursor control (8 Keys, Inverted "T")	Yes	Yes
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Numeric keypad (Integrated Overlay)	Yes	Yes
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Integrated Pointing Device	AccuPoint™	AccuPoint™
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EXPANSION SLOTS

Two Stacked PC Card Slots	Yes: Holds two - 5mm PC Cards Type II or one - 10.5mm PC Card Type III.	
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Support Standards	Yes: Supports 32-bit, 3.3V PC CardBus cards and 16-bit, 5.0V PC card standards	
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Internal Memory Slot (One only)	Yes	Yes
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EXPANSION PORTS

One RJ-11 port for internal modem (supplied)	Yes	Yes
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One 9-Pin Serial (16550 UART compliant)	Yes	Yes
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One 25-Pin Parallel (8 bit ECP)	Yes	Yes
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One 15-Pin RGB (SVGA video)	Yes	Yes
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One Fast Infrared port	Yes: IrDA 1.1:4Mbps compatible	Yes: IrDA 1.1:4Mbps compatible
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One (PS/2) 101 Keyboard/Mouse port	Yes: "Y"connector supported	Yes: "Y"connector supported
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One External Floppy Drive port	Yes	Yes
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One Universal Serial Bus (USB) port	Yes: Supports 127 devices. Throughput Rate: 12Mbits/sec.	
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Microphone (3.5mm mini jack, monoaural)	Yes	Yes
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Headphone (3.5mm mini jack, stereo)	Yes	Yes
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Line-in (3.5mm mini jack, stereo, 2V rms)	Yes	Yes
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Noteworthy security lock port	Yes	Yes
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INTERNAL MODEM (Cellular Ready)	33.6 /14.4 Kbps Data/Fax/Voice modem w/V.80 support for Video Conferencing	
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DAA Support	US/Canada and Euro/Asia	
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Data support	Protocols supported	Bell-103/212A, CCITT-V.21/V.22, V.32, V.32bis, V.34, V.80
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	Error correction	MNP 1-4
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	Data compression	MNP 5, CCITT V.42 bis
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Fax support	Fax class 1	
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Protocols supported	V.21 ch2, V.27 ter, V.29, V.17	
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Supported Functions	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume	
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	Incoming Call Discrimination, Caller ID	
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	520CDT: 2.02 GB: PA1246U-T2A	520CDT: 3.87 GB: PA1247U-T2A4
Desk Station V Plus (Optional)	Part# PA2710U	Part# PA2710U
(2) Full length 32-bit PCI/16-bit ISA slots	Yes	Yes
(1) Half Length 32-bit PCI slot	Yes	Yes
(2) Type III PC Card slots	Yes	Yes
Built-in SCSI II	Yes	Yes
5.25" half height drive bay	Yes	Yes
Select Bay for Modular FDD, HDD, CD-ROM	Yes ¹	Yes ¹
Designed for Windows 95 and PNP	Yes	Yes
Hot Docking Support	Yes	Yes
NoteDock II™ Port Replicator (Optional)	Part# PA2713U	
Two Type III CardBus ready PC Card slots	Yes: each slot supports one card	
Supported Interfaces	Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone	
POWER (All Models)		
Autosensing External AC Adapter	Yes: 4.90"L x 2.46"W x .97"D --- .66 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# PA2448UR	
Battery Life: (Full power/Low power)	One battery: 2 hrs./2.5 hrs. (max); Two Batteries: 4hrs./5hrs. (max)	
Recharge Time (Computer Off/On)	3.5 hrs.(Off) /4.5-11 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	48 kHz	
FM Synthesis support	Yes	
Full duplex function	Yes	
Sound formats supported:	SoundBlaster Pro™, .WAV, MIDI, Zoomed video port audio (stereo),	
3D Sound Support	Yes	
DirectSound/Direct3DSound support	Yes: with Windows 95 Game SDK driver from Microsoft	
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)	
DIMENSIONS	11.69"W x 9.09"D x 1.85"H	11.69"W x 9.09"D x 1.85"H
WEIGHT (includes .86 lbs. battery)	6.38 lbs.	6.38 lbs.
BUNDLED SOFTWARE (All Models)		
Windows®95, Synchro Multimedia Connect, Mediamatics MPEG ARCADE Pak, Puma Tranxite IR Software, MagicDisk, Netscape Personal Edition, Fn-esse™, Electronic manual		
OS Recovery CD; Windows 95 Companion Disk; Backup CD		
SECURITY	Miscellaneous	Screen blank (by Hotkey)
	Lock mechanisms	PC Card, keyboard (by Hotkey), Noteworthy cable lock
	Password security	Power-on, supervisor, HDD, Undock (from DeskStation V Plus)
WARRANTY	3 YR Parts & Labor	3 YR Parts & Labor
ENVIRONMENTAL SPECIFICATIONS		
(All Models)	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

1. The slimline CD-ROM, standard with 520/530CDT, is not compatible with the Deskstation V Plus. CD-ROM use in the Desk Station requires the purchase of CD-ROM Select Bay Adapter (PA2618U).