

TECRA 510CDT Product Specifications

510CDT:2.1 Billion Bytes: PA1232U-T2A

PROCESSOR

Intel Pentium® 133Mhz (2.9v/3.3v) w/VRT	Yes
External data bus width	64 bit
External data/address bus speed	66 MHz
Integrated Coprocessor	Yes
Processor Cache	16KB: (8KB code; 8KB data)

LEVEL 2 (L2) CACHE

Data Bus Width	64 bit
Data Bus Speed	66 MHz
DATA RAM:	Yes
1 Mbit Pipelined Burst Synchronous SRAM	(32K x 32bit, 3.3V) x 2
Access Time	8 ns
TAG-RAM:	Yes
256Kbit Asynchronous SRAM (14 ns)	(32K x 8bit, 3.3V) x 1

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, Sound chip, KBC

MEMORY: 16Mbit EDO DRAM, 3.3V

Standard	16 MB
Maximum	144 MB
Speed	60ns
Hyper Page mode memory access	Yes
Data width	64 bit
Local Bus Clock Speed	66 MHz
BIOS (256KB FLASH EPROM, 150ns, 5V)	Yes
PnP 1.0a SUPPORT	Yes

DISPLAY

Type	TFT Active Matrix Color
Size	12.1" (9.68"W x 7.26"H)
Dot Pitch	.30mm x .30mm
Contrast Ratio	100:1 (min)

VIDEO

Memory: 4Mbit EDO DRAM, 5V	2 MB
Speed	50ns
Hyper Page mode support	Yes
Controller Chip	C&T HIQV32 (CT65550)
PCI Bus Architecture w/burst mode	Yes: 32-bit, 30 MHz
Graphics Accelerator:	Yes
64-bit BitBLT, LINEdraw, H/W Cursor	Yes
Video Accelerator:	Yes
YUV-to-RGB color space conversion	Yes
Zoomed Video Port Support	Yes
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft
Color Palette	16.7M colors
Internal Resolution	800 x 600 x 16.7M/16.7M colors
Smaller Image	640 x 480 x 16.7M/16.7M colors
Virtual Display Mode	1024 x 768 x 64K/64K colors
	1280 x 1024 x 256/256K colors
External Resolution	<u>Colors/Palette</u>
	640 x 480 16.7M colors/16.7M colors
	800 x 600 16.7M colors/16.7M colors
	1024 x 768 64K colors/64K
	1280 x 1024 256 colors/256K

Refresh Rate @ 1024x768/ 64k colors Non-Interlaced¹ Vert.: 60Hz; Hor.: 48.5kHz

1. Refresh Rate @ 1024x768/ 256 colors Non-Interlaced : Vert.: 85 Hz; Hor.: 68.8 kHz

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STORAGE

Removeable HDD (2.5" Enhanced IDE) 2.1 billion bytes=2.02 GB (13msec)

SELECT BAY DEVICES

Second Battery

Battery Type

Requires optional Battery Adapter: Part# PA2496U

Li-Ion (10.8V, 3600mAH): Part# PA2490UR

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 Support³

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

1.3 billion bytes=1.26GB (13msec)

Modular CD-ROM: Toshiba XM-1502B

5.25" 10x-Average speed

Installed/Swappable with FDD

Weight

.6 lbs

Interface

.ATAPI (Enhanced IDE)

Random Access Time

180 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

82/84 keys, 3mm Travel Yes

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 Slots² 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 ports (Front and Back) Yes: IrDA 1.1:4Mbps compatible

One (PS/2) 101 Keyboard/Mouse port Yes

One External Floppy Drive port Yes

Microphone (3.5mm mini jack, monoaural) Yes

Headphone (3.5mm mini jack, stereo) Yes

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

Line-out (3.5mm mini jack, stereo, 0.7V rms) Yes

Noteworthy security lock port Yes

INTERNAL MODEM (All Models)

28.8 /14.4 Kbps Data/Fax/Voice modem *w/Canadian & Euro/Australian DAA*

Data support

Protocols supported

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

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

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Desk Station V Plus (Optional)	Part# PA2710U
(2) Full length 32-bit PCI/16-bit ISA slots	Yes
(1) Half Length 32-bit PCI slot	Yes
(2) Type III PC Card slots	Yes
Built-in SCSI II	Yes
5.25" half height drive bay	Yes
Select Bay for Modular FDD, HDD, CD-ROM	Yes
Designed for Windows 95 and PNP	Yes
Hot Docking Support	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

Autosensing Internal AC Power Supply	Yes
Input (Voltage/Frequency)	100-240V; 50-60Hz
Output (Voltage/Amps)	15 VDC; 2A (max)
Power Output (Watts)	30W
Battery Type: Li-Ion (10.8V, 3600mAH)	Yes: Part# PA2490UR
Battery Life: (Full Power/Low Power)	2+ hrs. (max)
Recharge Time (Computer Off/On)	2-3 hrs.(Off) /5-8 hrs.(On)
MaxTime® Power Management	Yes

SOUND SYSTEM (All Models)

Chipsets:	Crystal Semiconductor CS4232, Yamaha OPL3 (YMF262), Yamaha D/A converter (YAC512)
16 bit stereo audio playback/record	Yes
FM Synthesis support	Yes
Full duplex function	Yes
Sound formats supported:	SoundBlaster Pro™, .WAV, MIDI, Zoomed video port audio (stereo), CardBus audio (monaural), CD-ROM audio
DirectSound support	Yes: with Windows 95 Game SDK driver from Microsoft
Speaker system;	Two top-mounted stereo speakers (28mm, 8 Ω)

DIMENSIONS	11.77"W x 9.25"D x 2.28"H
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WEIGHT (includes .86 lbs. battery)	8.45 lbs.
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BUNDLED SOFTWARE (All Models)

User selectable Windows®95 or Windows® for Workgroups 3.11 and MS-DOS 6.22® 6.22 w/Special Enhancements; Intel Indeo Video™ 4.1; Synchro Multimedia Connect Communications utilities; magiCDisc™, Sony Music Screeners™ screen saver; Mediomatics MPEG ARCADE Player™, America Online®, CompuServe®, Netscape Navigator™ Personal Edition, Puma Tranxit IR Software, Dow Jones Personal Journal™, Fn-esse™, Hypertext online documentation

SECURITY	Lock slot, power-on & HDD password, screen blank, keyboard lock
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WARRANTY	3 YR Parts & Labor
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ENVIRONMENTAL SPECIFICATIONS

Temperature:	Operating	41°F (5°C) to 95°F (35°C)
	Non-operating	-4°F (-20°C) to 149°F (65°C)
	Thermal Gradient	20° C per hour (max.)
Relative Humidity:	Operating	20% to 80% non-condensing
	Non-operating	10% to 90% non-condensing
Altitude:	Operating	-197 to 9,843ft. (-60 to 3000m)
	Non-operating	-197 to 32,808ft. (-60 to 10,000m)
Shock:	Operating	10G; 1.5G w/CD-ROM installed
	Non-operating	60G; 50G w/CD-ROM installed
Vibration:	Operating	0.5G; 0.25G w/CD-ROM installed
	Non-operating	1G; 1G w/CD-ROM installed