TECRA 550CDT Product Specifications

550CDT: 4.0 Billion Bytes = 3.82GB (PA1268U-T2A)

PROCESSOR	
Intel Pentium® 266Mhz (2.0v/2.5v) w/MMX	Yes
External data bus width	64 bit
External data/address bus speed	66.6 MHz
Integrated Coprocessor	Yes
Processor Cache	32KB: (16KB code; 16KB data)
LEVEL 2 (L2) CACHE	Yes: 512KB
Data Bus Width	64 bit
Data Bus Speed	66 MHz
DATA RAM:	Yes
2 Mbit Pipelined Burst Synchronous SRAM	(32K x 32bit, 2.5V) x 2
Access Time	8 ns

SYSTEM ARCHITECTURE	<u>Connecting Devices</u>
PCI BUS (v.2.1): (32-bit, 33 MHz)	PC Card Slots, Expansion Bus, Graphics Controller, Modem DSP, HDD, CD-ROM
ISA BUS: 8-bit, 8 MHz	BIOS, FDD, KBC, Sound chip

MEMORY: 64Mbit **EDO DRAM,** 3.3V	
Standard/Maximum	32 MB/160MB
Speed	60ns *(supports Hyper Page mode memory access)*
Data width	64 bit
Local Bus Clock Speed	66 MHz
BIOS (4Mbit FLASH EPROM, 512K)	Yes: supports APM (v.1.2), ACPI (v.1.0), PnP (v.1.0a), VESA (v2.0), DPMS, DCC2B, DMI (v.2.0), PCI BIOS

STORAGE	
Removable HDD (2.5" Enhanced IDE)	4.0 billion bytes = 3.82 GB (13msec/14msec)
Local Bus Support	Yes
Burst Data Transfer rates	PIO Mode 4 (16.6MB/sec) or Ultra DMA Mode2 (33.3MB/sec)

SELECT BAY DEVICES	
Second Battery	*Optional: Part# PA2451UR (Includes battery adapter)*
Battery Type	Li-Ion (10.8V, 3600mAH)
Modular FDD (3.5" 1.44MB)	**Included/Swappable with CD-ROM**
FDD Dimensions	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/Weight	7.0"L x 5.5"W x .875"H --- .25 lbs
Modular HDD (2.5" Enhanced IDE)	*Optional/Swappable with FDD*
Capacity	2.1 billion bytes = 2.02 GB (13msec)
Modular CD-ROM	
5.25" 20X Max. speed	Installed/ For use in SelectBay only
Weight	.55 lbs
Interface	.ATAPI (Enhanced IDE) with 128K buffer
Local Bus support	Yes
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)

INTERNAL MODEM *(Cellular Ready)*[1]		K56 Flex *with DSVD, V.34 and 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

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DISPLAY

Type	TFT Active Matrix Color (1024 x 768 resolution)
Size	12.1" Diagonal
Dot Pitch	.24mm x .24mm
Contrast Ratio	100:1

VIDEO

Memory: 8Mbit SGRAM, 3.3V	4 MB
Access Speed	100 MHz
Data Bus Width	64-bit
Graphic Controller	
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz
Controller Chip	S3 Virge/ MX 3D (= 86C260)
64-bit BitBLT Engine	Yes
2D Supported Features	BitBLT, H/W Cursor, DirectDraw
3D Supported Features	
Performance (texel/sec)	20 million
Modeling	Fogging
Shading	Flat shading, Gouraud shading
Rendering	Bilinear/Trilinear texture mapping , Anti-aliasing, MIP mapping, Z-buffering (16-bit)
Direct3D support	Yes
OpenGL	Yes
Digital Video Accelerator	
YUV Color Space Conversion	Off-loads conversion from CPU for higher performance full motion video without compromising picture quality or frame rate.
Scaling/ Interpolation	Yes: vertical & horizontal
Zoomed Video Port Support	Yes: vertical & horizontal
DirectVideo support	Yes:w/Game SDK driver fr/Microsoft
DirectMPEG	Yes

INTERNAL VIDEO SUPPORT		Colors	Refresh Rate (Non-Interlaced)
Smaller Image	640 x 480	24-bit (16.7M)[2]	N/A
Smaller Image	800 x 600	24-bit (16.7M)[2]	N/A
Full Screen	1024 x 768	24-bit (16.7M)[2]	N/A
Virtual Display Mode	1280 x 1024	16-bit (64K)	N/A
Virtual Display Mode	1600 x 1200	8-bit (256)	N/A

EXTERNAL VIDEO SUPPORT (CRT)		Colors	Refresh Rate (Non-Interlaced)
	640 x 480	24-bit (16.7M)[2]	85 Hz
	800 x 600	24-bit (16.7M)[2]	85 Hz
	1024 x 768	24-bit (16.7M)[2]	85 Hz
	1280 x 1024	16-bit (64K)	75 Hz
	1600 x 1200	8-bit (256)	42 Hz (Interlaced)

SOUND SYSTEM

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™ (v3.01), Windows Sound System (v2.0), MIDI
3D Sound Support	Yes
DirectSound/Direct3Dsound support	Yes: with Windows 95 Game SDK driver from Microsoft
Volume control	Yes
Built-in Microphone (monaural)	Yes
Speaker system	Two top-mounted stereo speakers (28mm, 8 Ω)

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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
One Fast Infrared port	Yes: IrDA 1.1:4Mbps compatible
One (PS/2) 101 Keyboard/Mouse port	Yes: "Y"connector supported
One External Floppy Drive port	Yes
One Universal Serial Bus (USB) port	Yes: Supports 127devices. Throughput Rate: 12Mbits/sec.
Microphone (3.5mm mini jack, monoaural)	Yes
Headphone/Line-out (3.5mm mini jack, stereo)	Yes
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes
One security lock port	Yes

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

KEYBOARD

Windows 95 support	Yes
84 keys, 3mm Travel, Keyboard Tilt	Yes
12 dedicated function keys	Yes
Cursor control (8 Keys, Inverted "T")	Yes
Numeric keypad (Integrated Overlay)	Yes

Integrated Pointing Device	AccuPoint™

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: Each supports (1) Type II or (1) Type III PC Card
Built-in SCSI II	Yes
5.25" half height drive bay	Yes
Select Bay for Modular FDD, HDD, CD-ROM	Yes[3]
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 supports (1) Type II or (1) Type III PC 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 External AC Adapter	Yes: 4.90"L x 2.46"W x .97"H --- .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, 3400mAH)	Yes: Part# PA2448UR
Battery Life: (Full power)	One battery: 2.5 hrs.; Two Batteries: Up to 5hrs.(max)
Recharge Time (Computer Off/On)	3 hrs.(Off) /4.5-11 hrs.(On) --- (per one battery pack)
MaxTime® Power Management	Yes

3. The slimline CD-ROM, standard with 550CDT, is not compatible with the Deskstation V Plus. CD-ROM use in the Desk Station requires the purchase of 10x Avg. Speed CD-ROM (PA2659U).

TECRA 550CDT Product Specifications

	550CDT: 4.0 Billion Bytes = 3.82GB (PA1268U-T2A)
DIMENSIONS	11.69"W x 9.09"D x 1.85"H
WEIGHT*(includes .86 lbs. battery)*	
Weight Saver	5.8 lbs.
FDD installed	6.2 lbs.
CD-ROM installed	6.3 lbs.

BUNDLED SOFTWARE   Windows®95, RingZero RingCentral Telephony application, Mediamatics MPEG ARCADE Pak, Toshiba Windows Utilities (Maxtime, HW Setup, Fn-esse), Puma IntelliSync 97 (IR Software). Yamaha Station, Internet Explorer (v3.02), Intel Indeo Video (v 4.1), AOL, Compuserve

Additional Software on Application CD: Systemsoft Cardworks; 550CDT Electronic Manual; On-line registration; LAN Desk 3.1

CD's Included: OS Recovery CD; Windows 95 Companion CD; Application CD

SECURITY	Miscellaneous	Screen blank (by Hotkey)
	Lock mechanisms	PC Card, keyboard (by Hotkey), Noteworthy cable lock
	Password security	Power-on, supervisor, user, & Desk Station V Plus eject password
WARRANTY		3 YR Parts & Labor (1YR 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

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[1] Cellular Direct Connect compatible with Mortorola Micro TAC and Motorola Elite series only.

[2] 16 Million colors are not supported in 3D mode. Maximum 3D color support in this resolution is 64K colors.

[3] The slimline Select Bay module, standard with 550CDT, 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).