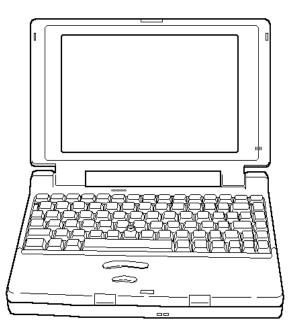
### **TECRA 750CDM:** The Ideal Desktop Alternative --Now with MPEGII & Dolby Sound!



#### **KEY SELLING POINTS**

- 233MHz Intel Pentium® 1.8v/2.5v with MMX technology for superior performance and long battery life!
- 512KB Pipelined Burst SRAM Level 2 (L2) cache maximizes CPU for the sofisticated power user
- 32MB EDO DRAM (60ns) expandable to 160 MB with TWO MEMORY SLOTS for added flexibility
- PCI Bus supports PC Card slots, HDD, CD-ROM, Graphics controller, Modem DSP, Video capture controller
- 13.3 TFT active matrix display (1024 x 768 with 16.7M color support) is equivalent to a 15 monitor
- S3 Virge/MX 3D 64-bit graphic controller has 4MB SGRAM provides 70% faster 3D graphics support
- DuoView Technology for advanced simultaneous monitor support *including Composite video-out & S-video Out.* Simultaneous display with different resolutions & Virtual desktop using future operating systems.
- Removable 5.1 Billion byte (= 4.77GB) HDD for the ultimate in storage space. Select Bay support by model --- (2) Standard devices: 20X Max speed CD-ROM & FDD. Optional devices: DVD-ROM, 20x Max CD-ROM, 3.82GB HDD, and 2nd battery.
- MPEGII playback and AC-3 Dolby Digital Sound
- 3D full duplex 16-bit sound with Wavetable synthesis support (.WAV, MIDI, SoundBlaster Pro 3.01 compatible)
- Built-in K56 Flex Upgradeable modem with DSVD, V.34 and V.80 support for Video Conferencing
- 2 hrs. battery time (Full power) with one battery installed Over 4 hrs. with Select Bay 2nd battery installed.
- Video Capture Kit includes integrated digital camera with new PCI/ZV dedicated port, Intel Video Phone with Proshare Technology 2.0, Microsoft VidCap, and Microsoft Netmeeting 2.0 with data sharing for H.323 Internet-based video conferencing and H324 analog phone line video conferencing.
- Exclusive Sarnoff VideoBrush<sup>™</sup> software *turns your PC into a portable scanner*. Convert scanned images, documents, and whiteboards into JPEG format for easy storage, editing, and Internet intergration.

PART #	Tecra 750CDM & Accessories	PART #	Tecra 750CDM & Accessories
PA1253U-T2C	750CDM 233 Mhz Pentium w/MMX, 4.77GB, 20X CD-ROM	NWWIRELESS	PORT Wireless Lan Access Point
KTT650/8	8MB EDO Memory Module (3.3 volt)	NWACCESSPT	PORT Wireless Lan PC Card with Antenna
KTT650/16	16MB EDO Memory Module (3.3 volt)	NWGPS01♥	PORT Global Positioning System PC Card
KTT650/32	32MB EDO Memory Module (3.3 volt)	NWGPSCD-USA	PORT GPS USA software (all regions of USA)
KTT650/64	64 MB EDO RAM Memory Module (3.3 volt)	NWAVC02	PORT Audio/Video Capture Type II PC Card
PA2710U	Desk Station V Plus	NWHD340	PORT PC Card Type III 340 Mb HDD
PA2716U	Notedock II Enhanced Port Relicator	PA2445UR	Primary Battery Pack (Li-Ion)
PA2613U	DVD-ROM drive kit (Select Bay module)	PA2446UR	2nd Lithium Ion Battery Pack (Select Bay module)
PA2607U	4.1 Billion byte (=3.82GB) HDD (Select Bay module)	PA2447U	Battery pack recharger (For Primary or 2nd battery)
NW17MON	PORT-Noteworthy 17" 1280x1024 Monitor	PA2444U	AC Power Adapter (60W)
NWPR100STD	PORT-Noteworthy Monitor Stand for all port replicators	NW802L	PORT-Noteworthy SmartCord Auto Adapter (15V)
NWZVMPEG1	PORT ZV Port/MPEG-1 PC Card	PA1050M	PORT-Noteworthy Leather Attache
NWETH01X	Noteworthy Ethernet 10 Base T, PCMCIA Type II	NWCCPRO	PORT-Noteworthy Performance Pro Carrying Case
NWETH02X	Noteworthy Ethernet 10 Base 2, PCMCIA Type II	NWCCUFB	PORT-Noteworthy Ultimate Woven Fabric Case:BK
NWTR02X	Noteworthy Token-Ring card, PCMCIA Type II	NWCCDFB	PORT-Noteworthy Universal Fabric Case, Bk Fabric
NW3270	PORT-Noteworthy 3270 Emulation card, PCMCIA Type II	NW3350L	PORT-Noteworthy security lock
SW3270	IBM <sup>®</sup> Personal Communication Software	NWMOU2	PORT-Noteworthy Two-Button Mouse
NWSCSI01	PORT SCSI-II adapter, PCMCIA Type II	NWMOU3	PORT-Noteworthy Screen Scroller Mouse
NWTYPE01	PORT PC Card Type Adapter	NW627S	PORT-Noteworthy 21-Key Keypad
NWMICROTAC	PORT Cellular Phone Cable for Motorola Elite	NWKB104EE	PORT-Noteworthy Enhanced Keyboard

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NWELITEPORT Cellular Phone Cable for Motorola MicroTac♥ For complete specifications and CD-ROM software options call 800-457-7777.

NWKB104MM PORT-Noteworthy Multimedia Keyboard

### TECRA 750CDM Product Specifications 750CDM: PA1259U-T2C

750CDM: PA1259U-T2C 5.1 Billion Bytes = 4.77 GB

	5.1 Dimon Dytes – 4.77 GD			
PROCESSOR				
Intel Pentium <sup>®</sup> 233Mhz (1.8v/2.5v)	Yes: with MMX support			
External data bus width	64 bit			
External data/address bus speed	66 MHz			
Integrated Coprocessor	Yes	Yes		
Processor Cache (L1)	32KB: (16KB code; 16KB data)			
Standards	ACPI v. 1.0 ready			
LEVEL 2 (L2) CACHE	Yes: 512KB			
Data Bus Width/ Data Bus Speed	64 bit/66 MHz			
DATA RAM:				
2 Mbit Pipelined Burst Synchronous SRAM	(64K x 32bit, 2.5V/3.3V) x 2 Access	Time: 8ns		
MEMORY: 64 Mbit EDO DRAM, 3.3V				
Standard/ Maximum	32MB			
Maximum	160MB			
Speed	60ns			
Hyper Page mode memory access	Yes			
Data width/ Data Bus speed	64 bit/66 MHz			
BIOS	Yes: (512KB 4Mbit FLASH EEPROM,	3.3V)		
Standards supported	APM v.1.2, PnP v.1.0A, VESA 2.0, DD	C2B, DPMS, ACPI v.1.0		
SYSTEM ARCHITECTURE	<u>Connectin</u>			
PCI BUS (v.2.1): (32-bit, 33 MHz)	PC Card Slots, Expansion Bus, Graphics	s Controller, Modem DSP,		
	Video Capture controller, DVD-ROM, DVD-ROM decoder, HDD			
ISA BUS: 16-bit, 8 MHz	BIOS ROM, KBC, FDD, Sound chip			
STORAGE				
Removable HDD (2.5" Enhanced IDE)	5.1 Billion Bytes = 4.77 GB (Read/Write	te: 12msec/13msec), Buffer: 512KB		
SELECT BAY DEVICES	DESCRIPTION	<b>WEIGHT</b>		
Second Battery	<b>Optional: Part# PA2446U</b>			
Battery Type	Li-Ion (10.8V, 3600mAH)	1.15 lbs.		
Modular FDD (3.5" 1.44MB)	Included/Swappable with CD-ROM			
FDD Dimensions	4.57"L x 3.78"W x .5"H	.60 lbs.		
Simultaneous FDD & CD-ROM Support	Yes: External FDD adapter included			
FDD Adapter Dimensions	7.0"L x 5.5"W	.25 lbs.		
Modular HDD (2.5 Enhanced IDE)	Optional/For use in SelectBay only: P			
Capacity	4.1 billion bytes = 3.82GB (Read/Write: 13msec/14msec), Buffer: 512KB			
Weight	.55 lbs.			
Modular CD-ROM: Toshiba XM-1602B				
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	D/aca @ 14V Assessors aread		
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			
MPEGII video support	Yes: (w/Windows 95 only)	(Flioto-CD, CD-Exita), CD-KW		
	•			
Dolby <sup>™</sup> Digital Surround Sound AC-3	Yes: (w/Windows 95 only)			
Modular DVD-ROM: Toshiba SD-C2002	Optional	CD DOM		
Operation modes	DVD-ROM 2X	CD-ROM 16X		
Access Speed Random Access Time	2X 180ms	16X 120ms		
Sustained Data Transfer rate	2,700 KB/sec	2,400 KB/sec		
Storage space/disk	4.7 GB	4.7 GB		
Storage space/uisk	עט י.ד	ч. / ОО		

#### 750CDM: PA1259U-T2C 5.1 Billion Bytes = 4.77 GB

	5.1 Billion Bytes = 4.77 GB			
DISPLAY				
Туре	13.3"Diagonal TFT Active Matrix			
Dot Pitch	.26mm x .26mm			
Contrast Ratio	100:1 (min)			
VIDEO				
Memory: 16Mbit SGRAM, 3.3V	4 MB			
Access Speed	83 MHz with Hyper-page mode sup	nort		
Data Bus Width/Clock Speed	64-bit/33 Mhz	port		
Graphic Controller				
PCI Bus Architecture w/burst mode	Yes: 32-bit, 33 MHz			
Standards supported	DPMS, PnP v.1.0A, VESA 2.0			
DuoView <sup>TM</sup> Device support <sup>1</sup>				
Duoview Device support		Allows display of different images (or the same image) on following screen		
Controllor Chin	combinations: notebook/external monitor; notebook/TV; external monitor/TV			
Controller Chip	S3 Virge MX 3D (= 86C260)			
64-bit BitBLT Engine	Yes			
2D Supported Features	BitBLT, H/W Cursor, DirectDraw			
3D Supported Features				
Modeling	Fogging			
Shading	Flat shading, Gouraud shading			
Rendering		Anti-aliasing, MIP mapping, Z-buffering		
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	y 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			
TV Encoder support	Yes: NTSC/PAL video out, and S-Vi	deo out with flicker reducing filter		
INTERNAL VIDEO SUPPORT	<u>Colors</u>	<u>Refresh Rate (Non-Interlaced)</u>		
Smaller Image 640 x 480	24-bit (16.7M)	N/A		
Smaller Image 800 x 600	24-bit (16.7M)	N/A		
Full Screen1024 x 768	24-bit (16.7M)	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)	<u>Colors</u>	<u>Refresh Rate (Non-Interlaced)</u>		
640 x 480	24-bit (16.7M)	85 Hz		
800 x 600	24-bit (16.7M)	85 Hz		
1024 x 768	24-bit (16.7M)	85 Hz		
1280 x 1024		75 Hz		
1600 x 1200		42 Hz (Interlaced)		
VIDEO CAPTURE SUPPORT	Colors	Fps (w/ZV Port/.AVI file)		
160 x 120	Up to 16.7M	30		
320 x 240	Up to 16.7M	15		
640 x 480	Up to 16.7M	3		
Input sources		ZV Port-enabled PC Card or ZV Port-enabled External Camera unit		
Connected Bus type	PCI bus (for ProShare/Video conferencing) and ZV port (normal capture)			
Supported file formats	.BMP, JPEG, .GIF (for still images), .AVI (for video)			
	12			
Maximum # of Still images to be stored		and HDD		
Maximum time of video recording	Varies by free space of main memory us display of different resolutions on mutiple dev			

1. Future operating systems may support simultaneous display of different resolutions on mutiple devices.

#### 750CDM: PA1259U-T2C 5.1 Billion Bytes = 4.77 GB

#### CAMERA

CAMERA	
Mount	External (hook on right edge of display panel)
Туре	1/4-inch CCD
Effective pixels	640 x 480 (= 307.2K)
Lens (Manual Focus)	F2.8, $f = 4.6 \text{ mm}$
Focusing range	> 10 cm, by manual focus
Viewing angle of Center	Horizontal: $\pm 22.5$ degrees (45° total); Vertical: $\pm 16.9$ degrees (33.8° total)
Minimum illumination	40 luxes
Tilting angle	-50 to $+50$ degrees
Panning angle	-45 to +225 degrees (horizontal)
Interface connector	Digital/26 pin proprietary connectory
Interface cable length	50cm
Automatic Light Control (ALC)	Yes: AGC (0 db~ +12db); ELC (1/60 ~ 1/10,000 sec)
White Balance ATW	Yes
Dimensions	5.63"L x 1.14"W x .79"D
Weight	.25 lbs.
SOUND SYSTEM	
Chipsets:	Yamaha 3D sound effect-enabled OPL3-SA3 and Wavetable-enabled OPL4-ML2
Functions supported	
Sound formats supported:	SoundBlaster Pro <sup>™</sup> v.3.01, MIDI, Windows Sound System v.2.0
16 bit stereo audio playback/record	Yes: w/48kHz maximum sampling rate
Full duplex function	Yes: including simultaneous playback and record
Mixing	CD-ROM audio, Zoomed Video audio (stereo), CardBus audio (monaural)
DirectSound support	Yes: with Windows 95 Game SDK driver from Microsoft
Volume control	Yes
Speaker system:	
	Two top-mounted stereo speakers (28mm, 16 $\Omega$ )
INTERNAL MODEM (All models)	K56 Flex Upgradeable 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.23, V.22bis, V.32, V.32bis, V.34
Error correction	MNP 1-4
Data compression	MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression
Fax support	Fax class 1, Class 1 ECM
Protocols supported	V.21 ch2, V.27 ter, V.29, V.17
Cellular support	US Cellular support under Windows 95 only
Protocols supported (Phone)	Bell-103/212A, CCITT-V.21/V.22, V.23, V.22bis, V.32, V.32bis, V.34
Protocols supported (Fax)	V.21 ch2, V.27 ter, V.29, V.17
Fax class	Fax class 1, Class 1 ECM
Phones supported <sup>3</sup>	Motorola Micro TAC (DPC550, Alpha, Lite, and Ultralite) and Motorola Elite only
Telephony Functions (Windows 95 only)	
Standard software	Ring Zero RingCentral telephony software
	Speaker phone, Telephony Answering Machine, Ring Wake-up Resume
	Incoming Call Discrimination, Caller ID
DSVD protocols supported	ITU-T V.70, V.75, V.76, G.729, V.80, V.25terA, V.34, V.8bis
Video Conferencing (Windows 95 only)	
Standard software	Intel Video Phone with Proshare Technology 2.0 and Microsoft Netmeeting 2.0
Protocols supported	ITU-T H.323 (Internet video conferencing); H.324 (POTS video conferencing);
Protocols supported	<b>ITU-T H.323</b> ( <i>Internet video conferencing</i> ); <b>H.324</b> ( <i>POTS video conferencing</i> ); H.245; H.223; G.723; H.263; <b>V.80</b> ; V.25terA; <b>V.34</b> ; V.8bis T.120; T.121; T.122; T.123; T.124; T.125; T.126; T.127

	750CDM: PA1259U-T2C		
	5.1 Billion Bytes = $4.77 \text{ GB}$		
EXPANSION SLOTS	LOCATION		
Two Stacked PC Card Slot <sup>2</sup>	Yes: Left side (CardBus & ZV Card Ready)		
32-bit, 3.3V PC CardBus Support	Yes		
16-bit, 5.0V PC Card Support	Yes		
<i>Two</i> Internal Memory Slots	Yes: Below left-half of the palm rest (above main HDD)		
EXPANSION PORTS	LOCATION		
One 9-Pin Serial (16550 UART compliant)	Yes: Rear of unit		
One 15-Pin RGB (SVGA video)	Yes: Rear of unit		
One Expansion Bus	Yes: Rear of unit (for use with Docking Station or Port Replicator)		
One 25-Pin Parallel (8 bit ECP)	Yes: Rear of unit		
One DC IN port	Yes: Rear of unit		
Noteworthy security lock port	Yes: Rear of unit		
Microphone (3.5mm mini jack, monoaural)	Yes: Rear of unit		
Headphone (3.5mm mini jack, stereo, $16\Omega$ min)	Yes: Rear of unit (stereo, common with Headphone/AC3 digital)		
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes: Rear of unit		
Line-out (3.5mm mini jack, stereo, 0.7V rms)	Yes: Rear of unit		
Dolby AC3 Digital	Yes: Rear of unit (5.1 channel, common with Headphone/AC3 digital)		
One (PS/2) 101 Keyboard/Mouse port	Yes: Rear of unit (supports Y Connector)		
One S-Video out port	Yes: Rear of unit		
One NTSC/PAL out port	Yes: Rear of unit		
Two Fast Infrared ports (front and back)	Yes: Rear of unit (IrDA 1.1:4 Mbps compatible)		
One External Floppy Drive port	Yes: Left side		
Two Universal Serial Bus (USB) ports	Yes: Left side (Supports 127 devices. Throughput Rate: 12 Mbits/sec.)		
One Power switch	Yes: Left side		
One Reset Button	Yes: Left side		
Noteworthy security lock port	Yes: Left side (Use when docked)		
One RJ-11 port for internal modem (supplied)	Yes: Right side		
One Cellular Modem port <sup>3</sup>	Yes: Right side		
One External Camera port	Yes: Right side		
KEYBOARD	ž		
84keys, 3mm Travel	Yes: 12 dedicated function keys; Cursor control (8 Keys, Inverted "T")		
Windows 95 support	Yes		
Keyboard tilt	Yes		
Numeric keypad (Integrated Overlay)	Yes		
Integrated Pointing Device	AccuPoint™		
Enhanced Port Replicator II (Optional)	Part# PA2716U		
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, FDD port,		
II	lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone		
<b>Desk Station V Plus (Optional)</b>	Part# PA2710U		
Supported Interfaces	(2) Full length 32-bit PCI/16-bit ISA slots; (1) Half Length 32-bit PCI slot;		
	(2) Type III PC Card slots; (1) SCSI II; (1) 5.25" half height drive bay;		
	(1) Select Bay for Modular FDD or CD-ROM		
Ports Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDI			
	lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone		
Other features	Designed for Windows 95 and PNP; Hot Docking Support		
	Type III PC Card. 3. Requires the purchase of appropriate cellular cable: 991-40042.		

2. Slot supports two Type II PC Cards or one Type III PC Card. 3.Requires the purchase of appropriate cellular cable: 991-40042.

	750CDM: PA1259U-T2C			
	5.1 Billion Bytes = 4.77 GB			
POWER	-			
60W Autosensing External AC Adapter	5.51"L x 2.95"W x .98"90 lbs. (Part#:NW2444U)			
Input (Voltage/Frequency)	100-240V; 50-60Hz			
Output (Voltage/Amps)	15 VDC; 4.0A (max)			
Battery Type: Li-Ion (3.6V 1200mAh, 12 cells)	Yes: Part# PA2445UR (2.83"W x 1.14"H x 6.61"L) 1.1 lbs.			
Battery Life	One battery	Two batteries		
Full Power mode	2 hrs.	4 hrs.		
Low Power mode	3 hrs.	6 hrs.		
Recharge Time: Main Battery <sup>4</sup>	Notebook alone	Docked In Port Replicator	Docked In Desk Station	
(Computer Off/On)	3.8- 4.0 hrs./5-9 hrs.	3.8 - 4.0 hrs./5-12 hrs.	4-5 hrs./ 6-12 hrs.	
Power Savings	MaxTime®; APM v.1.2 BIOS support			
DIMENSIONS	11.95"W x 9.45"D x 2.13"H	I		
WEIGHT ( <i>includes 1.1 lbs. battery</i> ) <sup>5</sup> 8.0 lbs. (with FDD installed); 8.3 lbs. (with DVD-ROM installed)			stalled)	
BUNDLED SOFTWARE: Windows 95; Ring	Zero RingCentral v.4.xx Teler	phony application; Toshiba Vid	lCap software;	
Puma Intellisync 97; Sarnoff Video Brush scann	ing software; Microsoft Netm	neeting 2.0; Intel Video Phone	w/Proshare Technology 2.0	
			Laterna (22 1:1 - 4 0)	
Included on CD: Internet Explorer 4.0; LANDe				
Toshiba Fn-esse utility; Online manual. Units s	hip with Recovery CD, Windo	ows95 Companion disk, and A	<i>Application CD.</i>	
SECURITY	Lock slot, Password:power-	on, supervisor, HDD access, D	Oocking station eject	
WARRANTY	3 YR Parts & Labor (battery	1 year)		
ENVIRONMENTAL SPECIFICATIONS	Oneveting		Non anousting	

5 THEF arts & Easter (surrer) F year)		
<b>Operating</b>	Non-operating	
41°F (5°C) to 95°F (35°C)	-4°F (-20°C) to 149°F (65°C)	
20% to 80% non-condensing	10% to 90% non-condensing	
-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)	
10G (11ms); 1.5G w/CD-ROM installed	60G (11ms); 50G w/CD-ROM installed	
0.5G; 0.25G (5~500Hz) w/CD-ROM	1G; 1G (5~500Hz) w/CD-ROM	
	<u>Operating</u> 41°F (5°C) to 95°F (35°C)  20% to 80% non-condensing -197 to 9,843ft. (-60 to 3000m) 10G (11ms); 1.5G w/CD-ROM installed	

4. Recharge time may vary depending on condition of battery, and consumption of power for function performed during recharge: eg. use of LCD, HDD/CD-ROM, sound and modem, CardBus card in Port Replicator or PCI card in Desk Station V Plus. 5. Optional 2nd battery PA2446UR weights 1.15 lbs.