TECRA 750CDT Product Specifications 750CDT: PA1253U-T2C

5.1 Billion Bytes = 4.77 GB

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|---|--|----------------------------------|
| PROCESSOR | | |
| Intel Pentium [®] 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 | |
| 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) x 2 Access Time: | 8ns |
| TAG-RAM: | | |
| 256Kbit Asynchronous SRAM | (32K x 8bit, 2.5V) x 2 Access Time: | 14ns |
| SYSTEM ARCHITECTURE | Connectin | g Devices |
| PCI BUS (v.2.1): (32-bit, 33 MHz) | PC Card Slots, Expansion Bus, Graphics | |
| | Video Capture controller, CD-ROM, HD | |
| ISA BUS: 16-bit, 8 MHz | BIOS ROM, KBC, FDD, Sound chip | |
| MEMORY: 64 Mbit EDO DRAM, 3.3V | <u>^</u> | |
| Standard/ Maximum | 32 MB/160 MB | |
| 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 | |
| STORAGE | | |
| Removable HDD (2.5" Enhanced IDE) | 5.1 Billion Bytes = 4.77 GB (Read/Write | e: 12msec/13msec), Buffer: 512KB |
| SELECT BAY DEVICES | DESCRIPTION | WEIGHT |
| Second Battery | Optional: Part# PA2446U | |
| 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: Pa | rt # PA2607U |
| 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 | |
| Average Sustained Transfer Rate | 3420KB/sec @ 20X Max speed; 2394K | B/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 | |
| Modular DVD-ROM ¹ : Toshiba SD-C2002 | Optional | |
| Operation modes | <u>DVD-ROM</u> | <u>CD-ROM</u> |
| Access Speed | 2X | 16X |
| Random Access Time | 180ms | 120ms |
| Sustained Data Transfer rate | 2,700 KB/sec | 2,400 KB/sec |
| Storage space/disk | 4.7 GB | 4.7 GB |
| 1 Not intended for movie playback. For storage use only | | - |

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| DISPLAY | | |
| Туре | 13.3"Diagonal TFT Active Matrix | |
| Dot Pitch | .26mm x .26mm | |
| Contrast Ratio | 100:1 (min) | |
| VIDEO | | |
| Memory: 8Mbit SGRAM, 3.3V | 4 MB | |
| Access Speed | 83 MHz with Hyper-page mode suppo | rt |
| Data Bus Width/Clock Speed | 64-bit/33 Mhz | |
| Graphic Controller | | |
| PCI Bus Architecture w/burst mode | Yes: 32-bit, 33 MHz | |
| Standards supported | DPMS, PnP v.1.0A, VESA 2.0 | |
| DuoView TM Device support ² | Allows display of different images (or t | he same image) on following screen |
| Duoview Device support | combinations: notebook/external monit | |
| Controller Chin | S3 Virge MX 3D (= 86C260) | |
| Controller Chip | - | |
| 64-bit BitBLT Engine | Yes | -+D |
| 2D Supported Features | BitBLT, LINEdraw, H/W Cursor, Direc | ctDraw |
| 3D Supported Features | F : | |
| Modeling | Fogging | |
| Shading | Flat shading, Gouraud shading | |
| Rendering | Bilinear/Trilinear texture mapping, An | ti-aliasing, MIP mapping, Z-buffering |
| Direct3D support | Yes | |
| OpenGL | Yes | |
| Digital Video Accelerator | | |
| YUV Color Space Conversion | Off-loads conversion from CPU for hig | |
| | without compromising picture quality of | r 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-Vide | o out with flicker reducing filter |
| INTERNAL VIDEO SUPPORT | <u>Colors</u> | Refresh Rate (Non-Interlaced) |
| Smaller Image 640 x 480 | 24-bit (16.7M) | N/A |
| Smaller Image 800 x 600 | 24-bit (16.7M) | N/A |
| Full Screen 1024 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 | | N/A |
| EXTERNAL VIDEO SUPPORT (CRT) | Colors | Refresh Rate (Non-Interlaced) |
| 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) |
| SOUND SYSTEM | 0 0it (230) | |
| Chipsets: | Vamaha 3D sound affact anablad OPL 3 | SA3 and Wavetable-enabled OPL4-ML2 |
| Functions supported | Tamana 5D sound effect-enabled OF L5- | SAS and wavelable-enabled OF L4-WIL2 |
| | SoundDisstan DroIM 2 01 MIDL W'-1 | Sound System v 2.0 |
| Sound formats supported: | SoundBlaster Pro [™] 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 (28mn | n, 16 Ω) |

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

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| | 5.1 Billion Bytes = 4.77 GB | |
| INTERNAL MODEM (All models) | K56 Flex Upgradeable with DSVD, V.34 and V.80 support for Video Conferencing | |
| 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 ³ | 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); | |
| | H.245; H.223; G.723; H.263; V.80; V.25terA; v.34; V.8bis | |
| Data sharing support | T.121; T.122; T.123; T.124; T.125; T.126; T.127 | |
| EXPANSION SLOTS | LOCATION | |
| Two Stacked PC Card Slot ⁴ | 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, 16Ω min) | Yes: Rear of unit | |
| 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 | |
| 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 | Yes: Right side | |
| One External Camera port | Yes: Right side (Proprietary 26-pin connector) | |
| | MICROTAC or NWELITE. 4. Slot supports two Type II PC Cards or one Type III PC Card. | |

3. Requires the purchase of appropriate cellular cable: NWMICROTAC or NWELITE. 4. Slot supports two Type II PC Cards or one Type III PC Card.

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|---|---|--|
| | 5.1 Billion Bytes = 4.77 GB | |
| CAMERA | Dimensions: 5.63"L x 1.14"W x .79"D Weight: .25 lbs. | |
| Туре | 1/4-inch CCD with 640 x 480 effective pixels | |
| Lens (Manual Focus) | F2.8, f = 4.6 mm | |
| Focusing range | > 10 cm, by manual focus | |
| Viewing angle of Center | Horizontal: ±22.5 degrees (45° total); Vertical: ±16.9 degrees (33.8° total) | |
| Minimum illumination | 40 luxes | |
| Tilting angle | -50 to $+50$ degrees | |
| Panning angle | -45 to +225 degrees (horizontal) | |
| Interface cable length | 50cm | |
| Automatic Light Control (ALC) | Yes: AGC (0 db~ +12db); ELC (1/60 ~ 1/10,000 sec) | |
| White Balance ATW | Yes | |
| KEYBOARD | | |
| 84keys, 3mm Travel | Yes: 12 dedicated function keys; Cursor control (8 Keys, Inverted "T") | |
| Numeric keypad (Integrated Overlay) | Yes | |
| Integrated Pointing Device | AccuPoint™ | |
| Enhanced Port Replicator II (Optiona | I) Part# PA2716U | |
| Two Type III CardBus ready PC Card | Yes: each slot supports one card | |
| Supported Interfaces | Serial, parallel, PS/2 keyboard, PS/2 mouse, DC in, SVGA monitor, FDD port, | |
| | lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone | |
| Desk Station V Plus (Optional) | Part# PA2710U | |
| Supported Interfaces | (2) Full length 32-bit PCI/16-bit ISA slots; (1) Half Length 32-bit PCI slot; | |
| 11 | (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, FDD port, | |
| | lock slot, joystick/MIDI, audio line-in, line-out, headphone, microphone | |
| Other features | Designed for Windows 95 and PNP; Hot Docking Support | |
| 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 | | |
| Battery Life: (One battery/two batteries) | 3.5 + hrs. max. / 7.0 + hrs. max. | |
| Recharge Time: Main Battery ⁴ | Notebook alone Docked In Port Replicator Docked In Desk Station | |
| (Computer Off/On) | 2.5 hrs./3.2 hrs. 3.5 hrs./3.2~3.5 hrs. 3.5 hrs./4.1~7.3 hrs. | |
| Power Savings | MaxTime®; APM v.1.2 BIOS support | |
| DIMENSIONS | 11.95"W x 9.45"D x 2.13"H | |
| WEIGHT (includes 1.1 lbs. battery) ⁵ | 7.94 lbs. (with FDD installed); 8.03 lbs. (with CD-ROM installed) | |
| | | |
| | ; RingZero RingCentral v.1.0 Telephony application; Internet Explorer 3.0; | |
| | software; Sarnoff Video Brush scanning software; Microsoft Netmeeting 2.0 | |
| | logy 2.0 and Toshiba custom utilities (MaxTime; magiCDisc, Fn-Esse) | |
| | nerica OnLine; CompuServe; LANDesk Client Manager 3.0, Cardsoft | |
| SECURITY | Lock slot, Password:power-on, supervisor, HDD access, Docking station eject | |
| WARRANTY | 3 YR Parts & Labor (battery 1 year) | |
| ENVIRONMENTAL SPECIFICATIO | | |
| 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 | к.) | |
| Relative Humidity: Operating | 20% to 80% non-condensing 10% to 90% non-condensing | |
| Altitude: Operating | -197 to 9,843ft. (-60 to 3000m) -197 to 32,808ft. (-60 to 10,000m) | |
| Shock: Operating | 10G (11ms); 1.5G w/CD-ROM 60G (11ms); 50G w/CD-ROM installed | |
| | installed | |
| Vibration: Operating | 0.5G; 0.25G (5~500Hz) w/CD-ROM 1G; 1G (5~500Hz) w/CD-ROM | |

4. Recharge time may be longer than indicated, 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.