## TOSHIBA LIBRETTO 50CT Specifications

### PART# PA1249U-T2A

#### PROCESSOR
- Intel Pentium® 75 Mhz (2.9v/3.3v) w/VRT
- External data bus width: 64 bit
- External data/address bus speed: 50 MHz
- Integrated Coprocessor: Yes
- Processor Cache: 16KB: (8KB code; 8KB data)

#### SYSTEM ARCHITECTURE
- Vesa Local Bus (32-bit, 25Mhz)
- ISA Bus: (16-bit, 8mhz)

#### MEMORY: 16Mbit EDO DRAM, 3.3V
- Standard/Maximum: 16 MB/32MB
- Speed: 70ns
- Hyper Page mode memory access: Yes
- Data width: 64 bit
- Local Bus Clock Speed: 50 MHz

#### BIOS (2Mbit FLASH EPROM, 120ns)
- 256KB: Supports APM (v.1.2); VESA (v2.0); DPMS, DCC
- PnP 1.0a SUPPORT: Yes

#### DISPLAY
- Type: TFT Active Matrix Color
- Size: 6.1” Diagonal
- Dot Pitch: 0.19mm x 0.19mm
- Contrast Ratio: 100:1 (min)

#### VIDEO
- Memory: 4Mbit EDO DRAM, 3.3V
- Speed: 50ns
- Hyper Page mode support: Yes
- Controller Chip: Chips & Technology (B65550) w/32-bit Data Bus Width
  - Data Bus Width: 32-bit
  - VESA Local Bus: Yes: 32-bit, 25 MHz
- Graphics Accelerator: Yes: Supports 32-bit BitBLT, H/W Cursor, Scaling, DirectDraw
- Digital Video Accelerator: Yes
- YUV-to-RGB color space conversion: Yes
- DirectVideo support: Yes
- Color Pallette: Up to 16.7M colors
- Internal Resolution: 640 x 480 x 16.7M colors
  - Virtual Display: 800 x 600 x 64K colors
  - Virtual Display: 1024 x 768 x 256 colors
  - Virtual Display: 1280 x 1024 x 16 colors
- External Resolution: Colors/Palette
  - 640 x 480: 16.7M colors
  - 800 x 600: 64K colors
  - 1024 x 768: 256 colors
  - 1280 x 1024: 16 colors (interlace only)
- Vert. Refresh Rate (@ 800 x 600 Non-Interlaced): Vert.:64Hz @ 64K colors (Adjustable @ 640 x 480: 85/75/60 Hz @ 16.7M colors)

#### STORAGE
- HDD (2.5" Enhanced IDE) -- Fixed: 810 million bytes = 772MB (13 msec)
- FDD (3.5" 1.44MB): Yes: (Includes PC Card and FDD)

#### KEYBOARD
- 80keys: Yes (15mm key pitch; full-size key caps; 1.5 mm Travel)
- 12 dedicated function keys: Yes
- Cursor control (8 Keys, Inverted ”T”): Yes

#### Integrated Pointing Device
- AccuPoint™ (Right of LCD display)

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## Expansion Ports

- **One Headphone (2.5mm Umini jack, stereo)**
- **One Infrared port (IrDA1.0: 115.2Kbps)**

### I/O Bar (Port Expander)

- **One 9-Pin Serial (16550 UART compliant)**
- **One 25-Pin Parallel (8 bit ECP)**
- **One 15-Pin RGB (SVGA video)**

### Optional Enhanced Port Replicator (PA2718U)

- One (PS/2) 101 Keyboard port
- One (PS/2) Mouse port
- One RGB port
- One Serial port
- One parallel port
- One Type III PC Card slot

## Expansion Slots

- **One 16-bit, 5.0V PC Card Slot**
- **Internal Memory Slot (One only)**

## Power

### Autosensing External AC Adapter: PA2500U

<table>
<thead>
<tr>
<th>Input (Voltage/Frequency)</th>
<th>100-240V; 50-60Hz</th>
</tr>
</thead>
</table>

### Battery

- **Standard Battery: Li-Ion (1200mAh)**
- **High Capacity Battery: Li-Ion (2400mah)**

### Optional Battery Life

- **1.5 hrs./2.0 hrs (3hrs/4hrs using high capacity battery)**

## Sound System

- **Chips: Yamaha OPL3+ SA2**
- **16 bit stereo playback**
- **Maximum Sampling Rate: 44.1 kHz**
- **FM Synthesis support**
- **Built-in Speaker**
- **Half duplex supported**
- **DirectSound support**

## Enhanced Port Replicator (Optional)

- **One 9-Pin Serial (16550 UART compliant)**
- **One 25-Pin Parallel (8 bit ECP)**
- **One 15-pin RGB port**
- **One (PS/2) 101 Keyboard**
- **One (PS/2) Mouse port**
- **One Type III PC Card Slot**

## Dimensions

- **8.27”L x 4.53”W x 1.34”H**

## Weight (Includes .33 lbs. standard battery)

- **1.87 Lbs.**

## Bundled Software:

- Windows 95
- MagiCDisk
- Puma Tranxit 97
- Fn-esse™
- Online documentation & Registration

## Security

- Power-on, supervisor password

## Warranty

- 1 YR Parts & Labor

## Environmental Specifications

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