

# TOSHIBA LIBRETTO 50CT Specifications

## PART# PA1249U-T2A

<b>PROCESSOR</b>		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)
<b>SYSTEM ARCHITECTURE</b>		
Vesa Local Bus (32-bit, 25Mhz)		Connecting Devices: Graphics controller
ISA Bus: (16-bit, 8mhz)		Connecting Devices: BIOS, HDD, KBC, Sound chip
<b>MEMORY: 16Mbit EDO DRAM, 3.3V</b>		
Standard/Maximum		16 MB/32MB
Speed		70ns
Hyper Page mode memory access		Yes
Data width		64 bit
Local Bus Clock Speed		50 MHz
<b>BIOS (2Mbit FLASH EPROM, 120ns)</b>		256KB: Supports APM (v.1.2); VESA (v2.0); DPMS, DCC
PnP 1.0a SUPPORT		Yes
<b>DISPLAY</b>		
Type		TFT Active Matrix Color
Size		6.1" Diagonal
Dot Pitch		0.19mm x 0.19mm
Contrast Ratio		100:1 (min)
<b>VIDEO</b>		
Memory: 4Mbit EDO DRAM, 3.3V		1 MB
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 Palette		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		<u>Colors/Palette</u>
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)
<b>STORAGE</b>		
<b>HDD (2.5" Enhanced IDE) -- Fixed</b>		810 million bytes = 772MB (13 msec)
<b>FDD (3.5" 1.44MB)</b>		Yes: (Includes PC Card and FDD)
<b>KEYBOARD</b>		
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
<b>Integrated Pointing Device</b>		AccuPoint™ (Right of LCD display)

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<b>EXPANSION PORTS</b>		<b>LOCATION</b>
One Headphone (2.5mm Umini jack, stereo)		Yes: Rear of unit
One Infrared port (IrDA1.0: 115.2Kbps)		Yes: Rear of unit
<b>I/O BAR (Port Expander)</b>		<b>(1) Standard: Connects 100-pin to expansion bus -- rear of unit</b>
One 9-Pin Serial (16550 UART compliant)		Yes
One 25-Pin Parallel (8 bit ECP)		Yes
One 15-Pin RGB (SVGA video)		Yes
<b>Optional Enhanced Port Replicator (PA2718U)</b>		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
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<b>EXPANSION SLOTS</b>		
One 16-bit, 5.0V PC Card Slot		Yes: Holds one - 5mm PC Cards Type II
Internal Memory Slot (One only)		Yes
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<b>POWER</b>		
<b>Autosensing External AC Adapter: PA2500U</b>		3.94''L x 1.97''W x .98D''--- .44 lbs
Input (Voltage/Frequency)		100-240V; 50-60Hz
Output (Voltage/Amps)		15 VDC; 2.0A
Power Output (Watts)		30W
Battery		
Standard Battery: Li-Ion (1200mAh)		Yes: Part# PA2497UR (one standard)
High Capacity Battery: Li-Ion (2400mah)		Optional: Part# PA2498UR
Battery Life <sup>2</sup> (Full Power/Low Power)		1.5 hrs./2.0 hrs (3hrs/4hrs using high capacity battery)
Recharge Time (Computer Off only)		3 hrs. (6 hrs. with high capacity battery)
MaxTime® Power Management		Yes
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<b>SOUND SYSTEM</b>		
Chipsets:		Yamaha OPL3+ SA2
16 bit stereo playback		Yes
Maximum Sampling Rate		44.1 kHz
FM Synthesis support		Yes
Built-in Speaker		Yes (monaural) -- right of LCD display
Half duplex supported		Yes
DirectSound support		Yes
Sound formats supported:		SoundBlaster Pro™, MIDI
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<b>Enhanced Port Replicator (Optional)</b>		<b>Part# PA2718U</b>
One 9-Pin Serial (16550 UART compliant)		Yes
One 25-Pin Parallel (8 bit ECP)		Yes
One 15-pin RGB port		Yes
One (PS/2) 101 Keyboard		Yes
One (PS/2) Mouse port		Yes
One Type III PC Card Slot		Yes
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<b>DIMENSIONS</b>		8.27"L x 4.53"W x 1.34"H
<b>WEIGHT (Includes .33 lbs. standard battery)</b>		1.87 Lbs. (Enhanced battery weighs .73 lbs.)
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<b>BUNDLED SOFTWARE:</b> Windows 95; MagiCDisk; Puma Tranxit 97; Fn-esse™; Online documentation & Registration.		
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<b>SECURITY</b>		Power-on, supervisor password
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<b>WARRANTY</b>		1 YR Parts & Labor
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<b>ENVIRONMENTAL SPECIFICATIONS</b>	<b>Operating</b>	<b>Non-operating</b>
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