

# TOSHIBA LIBRETTO 100CT Specifications: PART# PA1254U-T2A

<b>PROCESSOR<sup>1</sup></b>		Intel Pentium® 166 Mhz (1.8V/2.5V) w/MMX	
Integrated Coprocessor		Yes	
Processor Cache		32KB: (16KB code; 16KB data)	
<b>MEMORY: 64Mbit EDO DRAM, 3.3V</b>			
Standard/Maximum		32 MB/64MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data width		64 bit	
Local Bus Clock Speed		66 MHz	
<b>BIOS (4Mbit FLASH EPROM)</b>		512KB	
Supported Standards		APM v.1.2; <b>ACPI</b> ; PnP 1.0a; VESA v2.0; DPMS, DCC, <b>DMI v.2.0</b>	
<b>SYSTEM ARCHITECTURE</b>		<u>Connecting Devices</u>	
PCI Local Bus (32-bit, 33Mhz)		BIOS ROM, KBC, HDD, Sound chip	
<b>DISPLAY</b>			
Type		TFT Active Matrix Color (800 x 480 resolution)	
Size		7.1" Diagonal	
Dot Pitch		0.19mm x 0.19mm	
Contrast Ratio		100:1 (min)	
<b>VIDEO</b>			
Memory		2 MB ( <i>integrated into Controller chip</i> )	
Speed		50ns	
Hyper Page mode support		Yes	
Controller Chip		NeoMagic NM2160	
Data Bus Width		<b>128-bit</b>	
PCI Local Bus		Yes: 32-bit, 33 MHz	
Graphics Accelerator:		Yes: Supports BitBLT, H/W Cursor, Scaling	
Digital Video Accelerator:		Yes	
YUV-to-RGB color space conversion		Yes	
Color Palette		Up to 16.7M colors	
<b>INTERNAL VIDEO SUPPORT</b>		<b>Colors</b>	<b>Refresh Rate (Non-Interlaced)</b>
Smaller Image	640 x 480	24-bit (16.7M)	N/A
Full Screen	800 x 480	24-bit (16.7M)	N/A
Virtual Display Mode	800 x 600	24-bit (16.7M)	N/A
Virtual Display Mode	1024 x 768	16-bit (64K)	N/A
<b>EXTERNAL VIDEO SUPPORT (CRT)</b>		<b>Colors</b>	<b>Refresh Rate (Non-Interlaced)</b>
	640 x 480	24-bit (16.7M)	85 Hz
	800 x 480	24-bit (16.7M)	85 Hz
	800 x 600	24-bit (16.7M)	85 Hz
	1024 x 768	16-bit (64K)	75 Hz
<b>STORAGE</b>			
<b>HDD (2.5" Enhanced IDE) -- Fixed</b>		2.1 Billion bytes = 2.02 GB (13 msec) with 128KB buffer	
<b>FDD (3.5" 1.44MB)</b>		Bundled: ( <i>Includes PC Card and FDD</i> )	
<b>KEYBOARD</b>			
80keys with Windows 95 support		Yes (15mm key pitch; 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)	
<b>EXPANSION SLOTS</b>			
Two Stacked PC Card Slot		Yes ( <i>CardBus &amp; ZV Card Ready</i> )	
32-bit, 3.3V PC CardBus Support		Yes	
16-bit, 5.0V PC Card Support		Yes	
Internal Memory Slot (One only)		Yes	

1. Uses 0.25 micron technology.

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<b>EXPANSION PORTS</b>		<b>LOCATION</b>	
One Headphone(2.5mm mini jack, stereo,16Ω min)		Yes: Rear of unit	
One Microphone jack (2.5mm mini jack, monaural)		Yes: Rear of unit	
One DC input		Yes: Right side of unit	
One FIR Infrared port (IrDA1.1:4Mbps)		Yes: Right side 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 (IEEE P1284 compliant)		Yes (8 bit ECP)	
One 15-Pin RGB (SVGA video)		Yes	
One PS2 Mouse/Keyboard port		Yes	
Dimensions/Weight		8.27"L x 2.38"W x 1.38"D --- .37 lbs.	
<b>POWER</b>			
<b>Autosensing External AC Adapter: PA2501U</b>		3.94"L x 1.97"W x .98D" --- .46 lbs	
Input (Voltage/Frequency)		100-240V; 50-60Hz	
Output (Voltage/Amps)		15 VDC; 2.0A	
Power Output (Watts)		30W	
MaxTime® Power Management		Yes	
<b>Battery (High Capacity Battery -- Included)</b>		Part# PA2503U <i>Not compatible with Libretto 50/70CT battery</i>	
Type:		Li-Ion (2400mAh)	
Dimensions		8.27"L x 1.78"W x .8"H	
Weight		.61 lbs.	
Battery Life (Full Power/Low Power)		2.5hrs/3.5-4 hrs.	
Recharge Time (Computer Off/On)		6 hrs. / 16 hrs.	
<b>SOUND SYSTEM</b>			
Chipsets:		Yamaha OPL3 SA3	
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 support		Yes	
3D Sound support		Yes <i>(when connected to stereo speakers)</i>	
Sound formats supported:		SoundBlaster Pro™ v.3.01, MIDI	
<b>ENHANCED PORT REPLICATOR(Optional )</b>		Part# PA2719U	8.98"L x 6.48"W x 1.91"D
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 Universal Serial Bus (USB)		Yes	
Two PC Card Slots (One stacked, one single)		Left Slot: (1) Type I or II    Right Slot: (2) Type I or II; or (1) Type III	
<b>DIMENSIONS</b>		8.27"L x 5.19"W x 1.38"H	
<b>WEIGHT (Includes .33 lbs. standard battery)</b>		2.4 Lbs.	
<b>BUNDLED SOFTWARE:</b>		Windows 95; Mediamatics Arcade Pak; Intel Indeo Video; Yamaha Audio Rack; Puma IntelliSync 97; Microsoft Internet Explorer; Fn-esse™; Online manual	
<b>SECURITY</b>		Power-on, & supervisor password	
<b>WARRANTY</b>		1 YR Parts & Labor	
<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: 15° C per hour (max.)		N/A	N/A
Relative Humidity		20% to 80% non-condensing	10% to 80% non-condensing
Altitude:		-197 to 9,843ft. (-60 to 3000m)	-197 to 32,808ft. (-60 to 10,000m)
Shock:		10G	60G
Vibration:		0.5G	1.0G