

# TOSHIBA LIBRETTO 70CT Specifications

## PART# PA1260U-T2A

<b>PROCESSOR</b>		Intel Pentium® 120 Mhz (2.2v/3.3v) w/MMX	
External data bus width		64 bit	
External data/address bus speed		50 MHz	
Integrated Coprocessor		Yes	
Processor Cache		32KB: (16KB code; 16KB data)	
<b>MEMORY: 16Mbit EDO DRAM, 3.3V</b>			
Standard/Maximum		16 MB/32MB	
Speed		60ns	
Hyper Page mode memory access		Yes	
Data width		64 bit	
Local Bus Clock Speed		60/40 MHz	
<b>BIOS (2Mbit FLASH EPROM)</b>		256KB: Supports APM v.1.2; VESA v2.0; DPMS, DCC	
PnP 1.0a SUPPORT		Yes	
<b>SYSTEM ARCHITECTURE</b>			
Vesa Local Bus (32-bit, 60/40Mhz)		Connecting Devices: Graphics controller	
ISA Bus: (16-bit, 8mhz)		Connecting Devices: BIOS, HDD, KBC, Sound chip, PC Card slots	
<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 (F65550) w/32-bit Data Bus Width	
Data Bus Width		32-bit	
VESA Local Bus		Yes: 32-bit, 60/40 MHz	
Graphics Accelerator:		Yes: Supports 32-bit BitBLT, H/W Cursor, Scaling	
Digital Video Accelerator:		Yes	
YUV-to-RGB color space conversion		Yes	
Color Palette		Up to 16.7M colors	
Internal Support		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 Support			
	<u>Resolution</u>	<u>Color Support</u>	<u>Vertical Refresh Rate (Non-Interlaced)</u>
	640 x 480	16.7M colors	85 Hz @ 16M colors
	800 x 600	64K colors	64 Hz @ 64K colors
	1024 x 768	256 colors	75 Hz interace @ 256 colors
	1280 x 1024	16 colors (interace only)	N/A
<b>STORAGE</b>			
<b>HDD (2.5" Enhanced IDE) -- Fixed</b>		1.62 Billion bytes = 1.5GB (13 msec read/14 msec write -- average)	
<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)	
<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>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	
<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	
MaxTime® Power Management		Yes	
Battery		<u>Standard Battery (PA2452UR)</u>	<u>High Capacity Battery (PA2498UR)</u>
Type:		Li-Ion (1200mAh) --one standard	Li-Ion (2400mAh) -- Optional
Dimensions		8.21''L x 1.09''W x .79''H	8.28''W x 1.78''W x .8''H
Weight		.33 lbs.	.61 lbs.
Battery Life (Full Power/Low Power)		1.7 hrs./2.7 hrs	2.5hrs/4.5 hrs.
Recharge Time (Computer Off/On)		3 hrs. / 8 hrs.	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	
DirectSound support		Yes	
Sound formats supported:		SoundBlaster Pro™ v.3.01	
<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	
<b>DIMENSIONS</b>		8.27"L x 4.53"W x 1.38"H	
<b>WEIGHT (Includes .33 lbs. standard battery)</b>		1.89 Lbs.	
<b>BUNDLED SOFTWARE:</b>			
Windows 95; MagiCDisk; Puma Tranxit 97; Fn-esse™; Online documentation; Online Registration Program.			
<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: 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