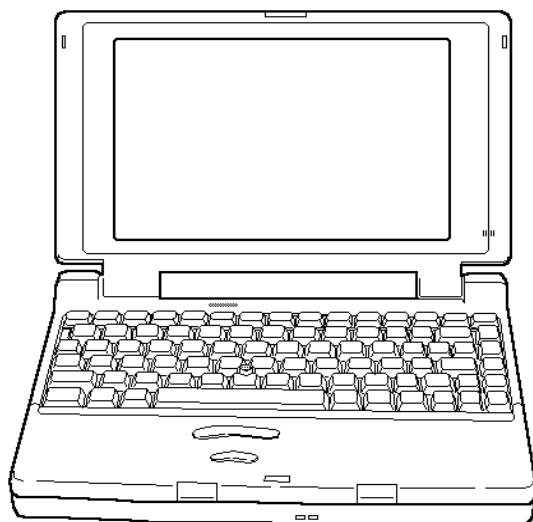


# TOSHIBA LIBRETTO 50CT

*The Perfect Desktop Companion That Provides Unconscious Portability!!*



## KEY SELLING POINTS

- **LIGHT WEIGHT** -- 1.87 lbs (8.27 W x 4.53 D x 1.34 H *(The Size of a video tape!)*)
- **Low voltage 75mhz Pentium® processor**
- **Windows 95 Standard (compatible with off-the-shelf applications)**
- **16 MB EDO DRAM expandable to 32MB**
- **6.1 diagonal Active Matrix Color Display with 640 x 480 resolution**
- **C&T 65550 Video Controller with VESA local bus and 1MB EDO DRAM video memory**
- **32-bit BitBLT graphics accelerator**
- **810 million byte (= 772MB) hard disk drive**
- **3.5 1.44MB FDD included (comes with PC Card adapter)**
- **16-bit sound system (SoundBlaster & MIDI compatible)**
- **Lithium-ion battery w/Maxtime® Power Management for up to 2 hrs. battery time with standard battery**
- **Optional high-capacity battery increases battery life up to 33%.**
- **PC Card slot holds (1) Type II PC card**
- **LibrettoPoint™ integrated pointing device for fatigue free use**
- **Infrared Port for high speed data transfer without cables**

- **1 Year Parts & Labor**

PART #	Libretto 50CT and Accessories	PART #	Libretto 50CT and Accessories
PA1249U-T2A	Libretto 50CT w/772MB HDD & TFT Active Matrix display	NWACCESSPT	PORT Wireless Lan Access Point
KTT-LBT/8	8MB EDO Memory Module (3.3 volt)	NWWIRELESS	PORT Wireless Lan PC Card with Antenna
KTT-LBT/16	16MB EDO Memory Module (3.3 volt)	NWGPS01♥	PORT Global Positioning System PC Card
PA2718U	Libretto 50CT Enhanced Port Replicator	NWGPCSD-USA	PORT GPS USA software (all regions of USA)
NWHD340	Noteworthy PC Card Type III 340 Mb HDD	NWGPCSD-W-NE-SE-C	PORT GPS Regional CD-ROM software
NWAVC02	PORT Audio/Video Capture Type II PC Card	PA2497UR	Enhanced battery pack (10.8V, 1200mAh)
NWPR100STD	PORT-Noteworthy Monitor Stand for all port replicators	PA2498UR	High Capacity Battery Pack (10.8V, 2400mAh)
NW288CR♣	PORT 33.6 Kbps Cellular Ready Data/Fax Modem PC Card	PA2499U	Battery pack recharger
NWETH01X	Noteworthy Ethernet 10 Base T, PC Card Type II	PA2500U	AC Adapter
NWETH02X	Noteworthy Ethernet 10 Base 2, PC Card Type II	NW801L	PORT-Noteworthy auto adapter
NWTR02X	Noteworthy Token-Ring card, PC Card Type II	NWCCL50	PORT-Noteworthy Libretto 50CT Wallet, Leather
SW3270	IBM® Personal Communication Software	NWKB104MM	PORT-Noteworthy Multimedia Keyboard
NW3270	PORT-Noteworthy 3270 Emulation card, PCMCIA Type II	NWKB104EE	PORT-Noteworthy Enhanced Keyboard
NWTYPE01	PORT PC Card Type Adapter	NWMOU3	PORT-Noteworthy Screen Scroller Mouse
NWMOU2	PORT-Noteworthy Two-Button Mouse		

♣ For a complete list of NW288CR cellular options call 800-959-4100.

♥ For complete specifications & list of CD-ROM software options call 800-457-7777.

# 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</b> (2Mbit FLASH EPROM, 120ns)	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</b> (2.5" Enhanced IDE) -- Fixed	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>	LibrettoPoint™ (Right of LCD display)

# TOSHIBA LIBRETTO 50CT Specifications

## PART# PA1249U-T2A

<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	
Full 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 Transit 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