

TOSHIBA V3100 Product Specifications

PLATFORM

SERIES NAME	TOSHIBA V3100
PART NUMBER	As Listed: See Configuration Page
PROCESSOR	
Intel® Celeron®	Yes
Ziff Socket	Yes
Available processor speeds	433, 466, or 500MHz
Integrated Coprocessor	Yes
MMX support	Yes
ECC support	Yes
Processor Cache (L1) Capacity	32KB: (16KB code; 16KB data)
Bus Speed	66MHz Front Side Bus
LEVEL 2 (L2) CACHE	Yes: 128KB Pipeline Burst SRAM <i>Integrated into CPU</i>
Data Bus Width/Address Bus Width	64-bit/64-bit
Local Clock Bus Speed	Same as processor
SYSTEM BOARD	
Form Factor	MicroATX
Chipset	Intel 810
Down Components	
I/O Controller	Yes
Graphics Controller	Integrated into Intel 810 chipset
Audio Controller	Aureal 8810 PCI Audio
SYSTEM ARCHITECTURE	
PCI BUS (V2.2): (32-bit, 33mhz)	3-PCI slots
HARDWARE MONITORING (DMI ASIC)	Yes: W83781 (Voltage, Temperature and Fan Speed)
MEMORY: SDRAM	
Type	Note: Memory Speed must match/exceed Front Side Bus speed. 168-pin SDRAM DIMM's with gold-plated contacts, unbuffered
Available Standard Configurations	32MB, 64MB or 128MB SDRAM
Maximum	256MB
Local Clock Bus Speed	100MHz
Socket type:	(2) 168-pin gold plated DIMM sockets: Accepts 64/128/256MB memory
BIOS (4Mbit FLASH EEPROM, 512KB)	
Supported Standards	Yes DMI (v.2.0), System BIOS, USB (v.1.0), APM (v.1.2), PnP (v.1.0a), VESA (DPMS & DCC), UDMA33, UDMA66, POST, ACPI (v.1.0), WfM (v.2.0), Machine ID
EXTERNAL INTERFACES	
One 9/25-Pin Serial	Yes (NS16C550 UART compatible)
Two Universal Serial Bus ports ¹	Supports 2 USB peripherals without external hub
One 25-Pin Parallel	Yes: (EPP/ECP compatible)
One 15-Pin RGB (SVGA video)	Yes
One (PS/2) Mouse Port	Yes
One (PS/2) 104 Keyboard	Yes
One External Microphone jack	Yes
Joystick/MIDI port	Yes
Line-out (3.5mm mini jack, stereo, 0.7V rms)	Yes
Line-in (3.5mm mini jack, stereo, 2V rms)	Yes

1. Both ports operate from a single controller allowing 128 devices total, not per port. Throughput for the Universal Serial Bus (USB) is 12Mbits/sec.

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VIDEO	
Video Memory: SDRAM	Intel Dynamic System Memory (<i>Shares System Main Memory</i>)
Speed	100MHz
Data Bus width	64-bit
Graphic Controller	
Controller Chip	Integrated into Intel 810 chipset (<i>Intel 752 graphics compatible</i>)
Connected Bus type	CPU system bus
Standards Supported	DPMS Power Management, PnP Compliant
2D Supported Features	BitBLT, Hardware Cursor (up to 64 x 64 x 2), DirectDraw, Rectangle Fill, Line Draw, BitBlt, Polygon Fill, Panning/Scrolling, Bit Masking, Monochrome Expansion, Scissoring and full ROP support
3D Supported Features	Yes
Triangle Setup	Yes
Modeling	Fogging, lighting
Shading	Gouraud shading
Rendering	Texture mapping: Bilinear, Trilinear, Anti-aliasing, MIP mapping, Z-Buffering
AGP texturing	Yes
Alpha-blending	Yes
Direct3D support	Yes
Open GL support	Yes
Digital Video Accelerator	
YUV Color Space Conversion	Yes: Off-loads conversion from CPU for higher performance full motion video Without compromising picture quality or frame rate.
Scaling/ Interpolation	Yes: vertical & horizontal
Direct Video, DirectMPEG	Yes (<i>Windows 95 only</i>)
Motion Compensation	Yes

SUPPORTED VIDEO RESOLUTIONS (Non-interlaced unless otherwise specified)	Colors/ Refresh Rate	Vertical Refresh Rate
640 x 480	32-bit (4.3B)	85 Hz
800 x 600	32-bit (4.3B)	85 Hz
1024 x 768	32-bit (4.3B)	85 Hz
1280 x 1024	32-bit (4.3B)	85 Hz
1600 x 1200*	8-bit (256)	75 Hz

* With 64MB or more Main memory.

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SERIES NAME TOSHIBA V3100 (PLATFORM con.)
PART NUMBER As Listed: [See Configuration Page](#)

SOUND SYSTEM

Chipset Aureal 8810
 Compatibility Windows Sound System, MIDI
 16-bit stereo audio Yes
 Built-in microphone No

CHASSIS (DESKTOP DESIGN)

EXPANSION BAY		TOTAL	AVAILABLE	CONFIGURED
Internal	3.5"	2	1	1 (HDD)
	5.25"	0	0	0
External	3.5"	1	0	1 (FDD)
	5.25"	2	1	1 (CD-ROM)

As Listed: See Configuration Page

EXPANSION SLOTS	TOTAL	AVAILABLE	CONFIGURED
(As Listed: See Configuration Page)			
PCI: Full-Length	3	2	1 (NIC Card)

POWER SUPPLY

Watts 150W
 Input (Voltage/Frequency) 115-230/50-60Hz
 Switched Yes

SUPPORTED SAFETY STANDARDS

US/Canada	UL 1950 – CSA950-95, 3rd Edition, 7/28/95 CSA22.2 No.950-93, 3rd Edition ICES-003, Issue 2 FCC Class B
International	IEC 950, 2 nd Edition, 1991 (w/amendments 1,2, & 3) CISPR 22, 2 nd Edition 1993
Europe	EN 60950 w/Nordic deviation; CE Mark; EN61000-4-4; EN61000-4-2; EN61000-4-3 TUV/GS Blue Angel

CERTIFICATIONS: Windows 98 & Windows NT logo, Novell Client, Energy Star

HARDWARE COMPLIANT: PC98, ACPI, Wired For Management (WfM), DMI 2.0, Year 2000 NSTL hardware tested

SECURITY

Hardware	Yes - Padlock loop on rear of chassis (lock not included with system)
Password Support	Power-on, Supervisor/Administrator, User & Setup Utility

DIMENSIONS

Measurements	7.13"W x 15.6"D x 14.3"H
Weight	22 lbs.

BUNDLED SOFTWARE (Windows 95 models)

Microsoft® Windows® 95, Microsoft Internet Explorer, Toshiba V3100 On-Line User's Guide

CD's Included: Bootable Toshiba Configuration Builder CD for Windows 95, Enhanced Recovery CD, Companion Disk

BUNDLED SOFTWARE (Windows 98 models)

Microsoft® Windows® 98 Second Edition, Microsoft Internet Explorer, Toshiba V3100 On-Line User's Guide

CD's Included: Bootable Toshiba Configuration Builder CD for Windows 98, Enhanced Recovery CD, Companion Disk

BUNDLED SOFTWARE (Windows NT models)

Microsoft® Windows® NT 4.0, Microsoft Internet Explorer, Toshiba V3100 On-Line User's Guide

CD's Included: Bootable Toshiba Configuration Builder CD for Windows 98, Enhanced Recovery CD, Companion Disk

WARRANTY: 1 Year Parts & Labor

ENVIRONMENTAL SPECIFICATIONS

	Operating	Non-operating
Temperature:	50°F (10°C) to 95°F (35°C)	-4°F (-20°C) to 140°F (60°C)
Packaged: -30°C to 70°C	--	--
Relative Humidity:	30% to 80% non-condensing	10% to 90% non-condensing
Shock:	10G; 1.5G w/CD-ROM installed	60G; 10G w/CD-ROM installed
Vibration (5~150Hz f/30 minutes, each axis)	0.3G	0.6G
Packaged: 1.0G		

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PART NUMBER As Listed: [See Configuration Page](#)

COMPONENT

STORAGE

FDD 3.5" 1.44MB Floppy Disk Drive
HDD (3.5" Half-height Enhanced IDE) As Listed: [See Configuration Page](#)
 Controller Integrated (ATA-4)
 Type SMART, Ultra-DMA
 Capacity options 4GB, 6GB, 8GB, 10GB or 12.9GB (As Listed: [See Configuration Page](#))
 RPM (+/- 0.1%) 5400
 Buffer 512KB
 Access Time (average) 9.5msec (read); 11.5msec (write)
 Ultra DMA support Yes
 Burst Data Transfer Rate Ultra DMA mode 4 (66.6MB/sec); Ultra DMA Mode2 (33.3MB/sec);
 PIO Mode 4 (16.3MB/sec)
 Certifications SMART, UDMA-66

MULTIMEDIA OPTIONS

Available options 40X CD-ROM or None
CD-ROM (Lite-on LTN-403L) 40X Max speed
 Interface ATAPI (Enhanced IDE) with 128KB Buffer
 Random Access Time 80ms
 Sustained Data Transfer Rate Up to 6,000KB/sec @ sustained 17X to 40X
 Data Transfer modes Ultra DMA Mode2 (33MB/sec); Sustained PIO Mode 4 (16.7MB/sec)
 Supported Disk Formats CD-DA, CD-ROM/XA, CD-I, Karaoke CD, Video CD, Multi-session Photo CD, CD extra, CD Plus, CD-R and CD-RW Discs compliant (Read only)

ETHERNET SUPPORT

As Listed: [See Configuration Page](#)
 Model options 3Com® Fast Etherlink XL PCI 10/100 w/RJ-45 port *or* None
 Chipset 3C905B
 Support Network 100Base-TX, 10Base T
 Port RJ-45

INTERNAL MODEM

As Listed: [See Configuration Page](#)
 Options 3Com® V.90/K56flex Internal Modem *or* None
 Type Internal V.90/K56flex
 Data support
 Protocols supported ITU-T V.90, 3Com x2, ITU-T V.34 (1996), ITU-T V.34, ITU-T V.32bis, ITU-T V.32, ITU-T V.22bis, ITU-T V.22, ITU-T V.23, Bell 212A, ITU-T V.21, ITU-T V.8, ITU-T V.8bis, Bell 103, ITU-T V.80
 Error correction & Data compression ITU-T V.42, MNP 2-4, ITU-T V.42bis, MNP 5
 MNP 5 for upto 2X data compression, CCITT V.42 bis for upto 4X data compression
 Fax Class 1 & 2.0
 Fax Protocols & Modulation ITU-T V.17, ITU-T V.29, ITU-T V.27ter, ITU-T V.21 (Channel 2), Group 3 FAX

KEYBOARD (PS/2)

As Listed: [See Configuration Page](#)

	<u>Value</u>	<u>Keyboard Option</u>
Enhanced 104-key keyboard		Yes
Windows 95/98 support		Yes
3.5mm Travel		Yes
12 dedicated function keys		Yes
Numeric keypad		Yes
Keyboard tilt		Yes: (6 degrees)
Indicators	Yes: Scroll Lock, CapsLock, NumLock	
Dimensions	18.9"W x 6.57"D x 1.46"H w/o feet	

POINTING DEVICE

PS/2 Mouse Yes: 2 Button with 6 foot cable
