

Veriton 5100/7100

Service Guide

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Conventions

The following conventions are used in this manual:

Screen messages	Denotes actual messages that appear on screen.
NOTE	Gives bits and pieces of additional information related to the current topic.
WARNING	Alerts you to any damage that might result from doing or not doing specific actions.
CAUTION	Gives precautionary measures to avoid possible hardware or software problems.
IMPORTANT	Reminds you to do specific actions relevant to the accomplishment of procedures.

Preface

Before using this information and the product it supports, please read the following general information.

1. This Service Guide provides you with all technical information relating to the BASIC CONFIGURATION decided for Acer's "global" product offering. To better fit local market requirements and enhance product competitiveness, your regional office MAY have decided to extend the functionality of a machine (e.g. add-on card, modem, or extra memory capability). These LOCALIZED FEATURES will NOT be covered in this generic service guide. In such cases, please contact your regional offices or the responsible personnel/channel to provide you with further technical details.
2. Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. If, for whatever reason, a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

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System Specifications

Overview

The Veriton 5100/7100 supports Intel® Pentium III Flip Chip-Pin Grid Array (FC-PGA) processor based Micro ATX, IBM PC/AT compatible system with PCI/AGP bus.

Features

Performance

- Intel® Pentium III processor which uses the FC-PGA 370 socket.
- 128/256 KB PBSRAM L2 cache incorporated in Intel® Pentium III (Coppermine) processor.
- Maximum of 512 MB SDRAM within 3 DIMM slots up to 133MHz.
- Support AGP 2.0 including 4x AGP data transfers.
- Integrated LAN Controller (82801BA).
- 3.5-inch and 5.25-inch floppy disk drives.
- CD-ROM/DVD-ROM drive
- High capacity, Enhanced-IDE hard disk
- Power management features
- CPU SMM (System Management Mode), STOP clock control
- On-board PCI master enhanced local bus IDE (Embedded in 82801BA chipset).
 - PIO mode 4
 - Ultra DMA/100, Ultra DMA/66 & Ultra DMA/33 modes
- Plug-and-Play (PnP) feature
- Power management features
 - Support for APM-1.2 for Non-ACPI implementations
 - ACPI 1.0 compliant
- Software shutdown for Windows 95/98
- Hardware monitor function (only support SMB)

Multimedia

- 3-D quality audio system via onboard audio controller
- Audio-in/Line-in, Audio-out/Line-out, Headphone-in, Mic-in, and Game/MIDI interface

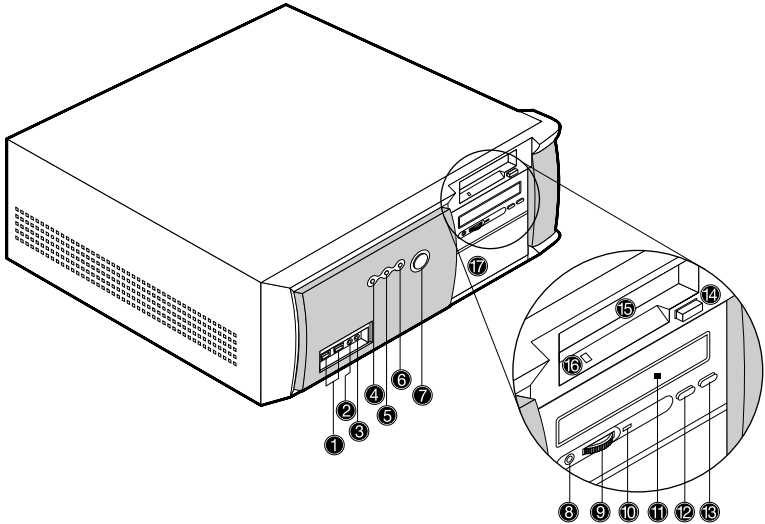
Connectivity








- One AGP and three PCI slots
- PS/2 mouse and keyboard interface
- Two serial and one parallel interface
- Four USB ports (available on front and rear panels)
- High-speed fax/data PCI modem (optional)
- 10Base-T/100Base-TX network support with remote wake-up function

Human-centric design and ergonomics

- Slim desktop form factor
- Separate computer stand and rubber stands for quick and easy positioning
- Space-saver solution
- Accessible I/O ports
- Easy-to-open housing design for quick upgrade

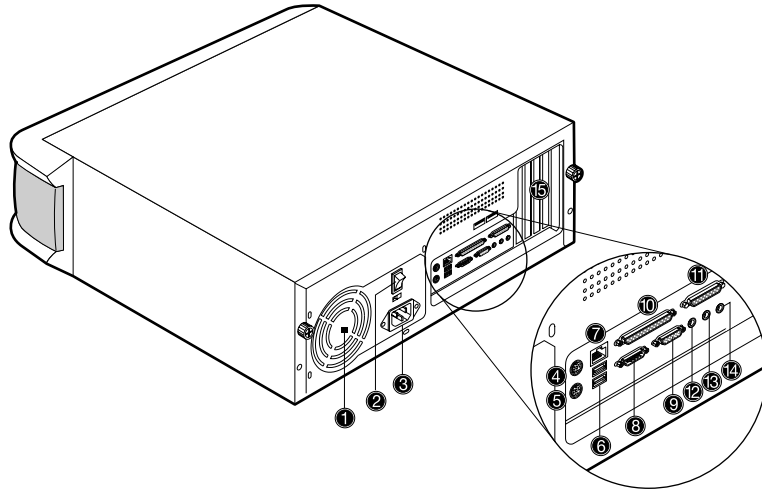
Front Panel-Veriton 5100














Label	Icon	Description
1		USB Ports
2		Microphone-in Port*
3		Speaker-out/Line-out Port
4		Hard Disk Drive Activity Light-emitting Diode (LED)
5		System Activity LED
6		Power LED
7		Power Switch
8		CD-ROM/DVD-ROM Headphone/Earphone Port
9		Volume Tuner
10		CD-ROM/DVD-ROM LED
11		CD-ROM/DVD-ROM Tray
12		Fast Forward/Skip Button
13		Stop/Eject Button
14		Floppy Disk Drive Eject Button
15		3.5-inch Floppy Disk Drive
16		Floppy Disk Drive LED
17		5.25-inch Drive Bays

NOTE: The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port at the back and disables the one in front. You have to enable the front microphone-in port to be able to use it.

Rear Panel-Veriton 5100

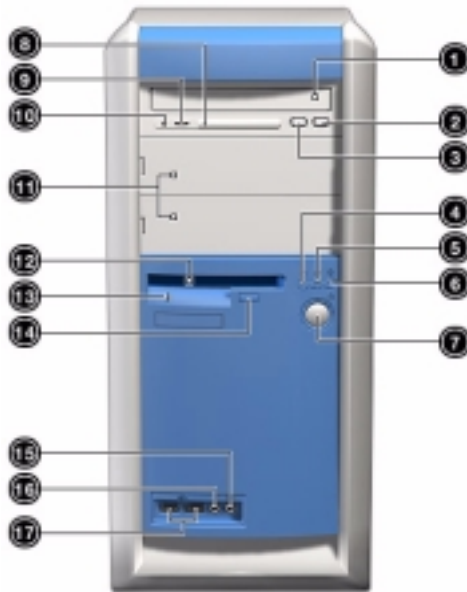






Label	Icon	Color	Description
1			Power Supply
2			Power Switch
3			Power Cord Socket
4		Green	PS/2 Mouse Port
5		Purple	PS/2 Keyboard Port
6		Black	USB Ports
7		White	Network Port
8		Teal or Turquoise	Serial Port
9		Blue	CRT/LCD Monitor Port
10		Burgundy	Parallel/Printer Port
11		Gold	Game/MIDI Port
12		Lime	Audio-out/Line-out Jack
13		Light blue	Audio-in/Line-in Jack
14			Microphone-in Port *
15			Expansion Slots




NOTE: The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port at the back and disables the one in front. You have to enable the front microphone-in port to be able to use it.

Front Panel-Veriton 7100

The computer's front panel consists of the following:

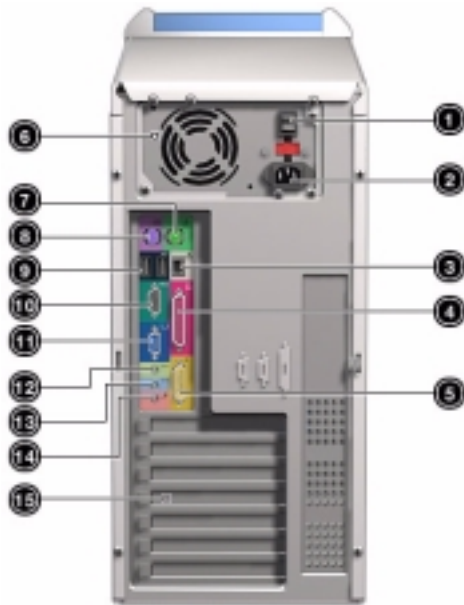








Label	Icon	Description
1		CD-ROM/DVD-ROM tray
2		Stop/Eject Button
3		Skip/Forward Button
4		Hard disk drive activity light-emitting diode (LED)
5		System activity LED
6		Power LED
7		Power button
8		CD-ROM/DVD-ROM LED
9		Volume Tuner
10		CD-ROM/DVD-ROM Headphone/Earphone port
11		5.25-inch drive bays






Label	Icon	Description
12		3.5-inch floppy disk drive
13		Floppy disk drive LED
14		Floppy disk drive eject button
15		Speaker-out/Line-out port
16		Microphone-in port *
17		USB ports

* The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port at the back and disables the one in front. You have to enable the front microphone-in port to be able to use it.

Rear Panel-Veriton 7100

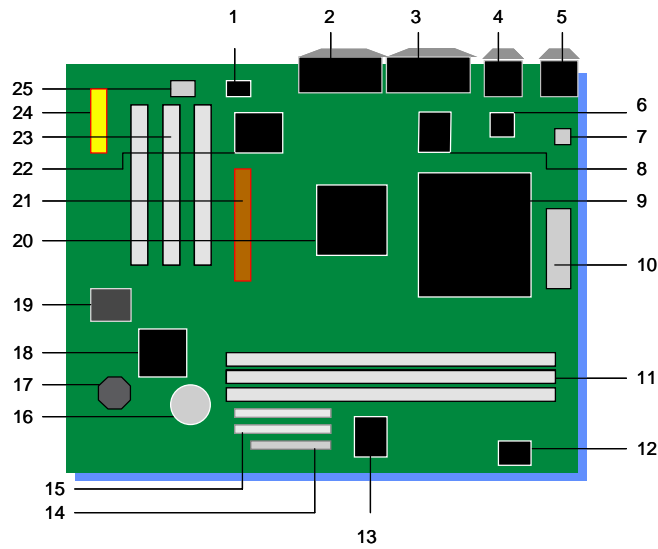


Label	Icon	Color	Description
1			Power Switch
2			Power cord socket
3		White	Network port
4		Burgundy	Parallel/printer port
5		Gold	Game/MIDI port
6			Power Supply
7		Green	PS/2 mouse port
8		Purple	PS/2 keyboard port
9		Black	USB ports

Label	Icon	Color	Description
10		Teal or Turquoise	Serial port
11		Blue	CRT/LCD Monitor port
12		Lime	Audio-out/Line-out jack
13		Light blue	Audio-in/Line-in jack
14			Microphone-in port *
15			Expansion slots

* The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port at the back and disables the one in front. You have to enable the front microphone-in port to be able to use it.

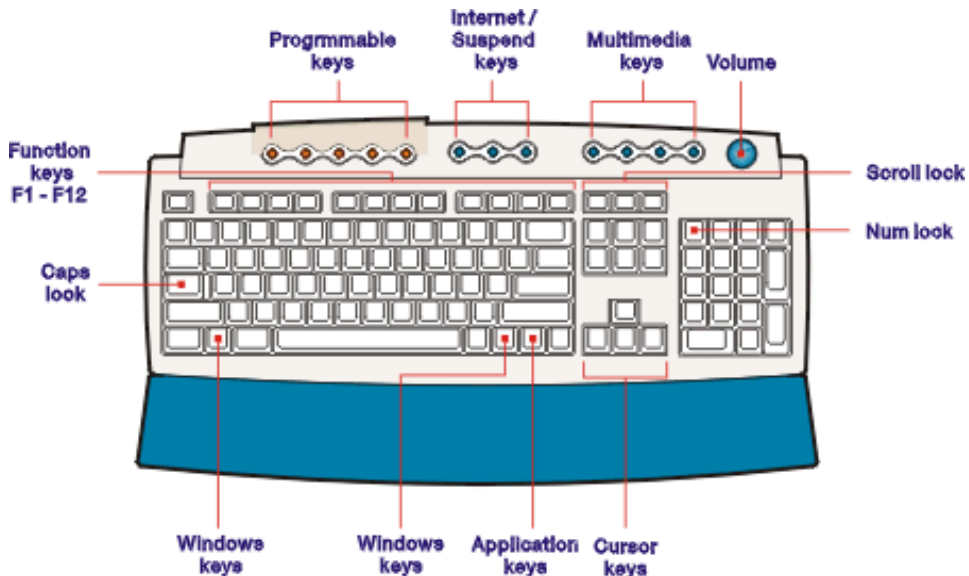
Main Board Layout



- | | | | |
|----|--|----|-----------------------|
| 1 | Audio Power AMP | 14 | FDD Connector |
| 2 | MIDI/Game (Upper), Line-Out (Left), Line-In (Middle), and Mic-In Ports (Right) | 15 | EIDE Connector |
| 3 | Parallel Port, VGA Port and Serial Port 1 | 16 | Battery |
| 4 | Network Port and USB Ports | 17 | Buzzer |
| 5 | PS/2 Mouse Port and Keyboard Port | 18 | Intel 82801BA Chipset |
| 6 | Transformer | 19 | 4MB FWH |
| 7 | FAN Connector | 20 | Intel 82815 Chipset |
| 8 | Platform LAN Connector | 21 | AGP |
| 9 | Socket 370 CPU | 22 | Super I/O Chipset |
| 10 | Power Connector | 23 | 3 PCI |
| 11 | 3 DIMM Sockets | 24 | CNR |
| 12 | H/W Mon. AD1024 | 25 | Audio Chipset |
| 13 | Clock Generator | | |

Keyboard

The keyboard has full-sized keys that include separate cursor keys, two Windows keys, and twelve function keys.





Programmable keys

The programmable keys help you directly access a URL (Web site) or launch any program, files, or application in your system. The fifth key is set to launch the media player. If you want to configure the settings of each key right click on the Magic Keyboard icon located on the desktop.

Internet/Suspend keys

The internet/Suspend keys consist of three buttons:

Icons	Key	Description
	E-mail	Launches your e-mail application.
WWW	Web Browser	Launches your current default browser.
	Suspend/Resume	Press this button to put the system to sleep. Press again to wake up.

Multimedia keys

Allow you to play, pause, stop, step forward, or step back a song or movie conveniently using your keyboard.

Icons	Key	Description
▶▶ /	Play/Pause	Press to start playing an audio or video file. Press again to pause.
■	Stop	Press to stop playing the audio or video file.
▶▶▶	Forward	Press to skip forward to the next file and start playing.
◀◀◀	Backward	Press to skip backward to the previous file and start playing.

Volume control/Mute

The volume control/Mute knob controls the speaker volume. Turn it clockwise or counterclockwise to adjust the volume. Press it to toggle between mute and sound.

Cursor keys

The cursor keys, also called the arrow keys, let you move the cursor around the screen. They serve the same function as the arrow keys on the numeric keypad when the Num Lock is toggled off.



Lock keys

The keyboard has three lock keys which you can toggle on and off to switch between two functions.

Lock Key	Description
Caps Lock	When activated, all alphabetic characters typed appear in uppercase (same function as pressing Shift + <letter>).
Num Lock	When activated, the keypad is set to numeric mode, i.e., the keys will function as a calculator (complete with arithmetic operators such as +, -, x, and /).
Scroll Lock	When activated, the screen moves one line up or down when you press the up arrow or down arrow respectively. Take note that Scroll Lock may not work with some applications.

Windows keys

The keyboard has two keys that perform Windows-specific functions.

Key	Description
Windows logo key 	Start button. Combinations with this key perform special functions, such as: <ul style="list-style-type: none"><input type="checkbox"/> Windows + Tab: Activate the next Taskbar button<input type="checkbox"/> Windows + E: Explore My Computer<input type="checkbox"/> Windows + F: Find Document<input type="checkbox"/> Windows + M: Minimize All<input type="checkbox"/> Shift + Windows + M: Undo Minimize All<input type="checkbox"/> Windows + R: Display the Run dialog box
Application key 	Opens the application's context menu (same function as clicking the right button of the mouse).

Hardware Specifications and Configurations

Processor


Item	Specification
Type	Intel® Pentium III- Coppermine processors
Slot	Socket 370
Speed	Internal : 450/500/533/550/600/667/733/800/866 MHz External: 100/133 MHz
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State the BIOS Setup is set to Enabled.)
Voltage	Processor voltage can be detected by the system without setting any jumper.

BIOS

Item	Specification
BIOS code programmer	Award
BIOS version	V4.0
BIOS ROM type	Flash ROM
BIOS ROM size	4Mbits
BIOS ROM package	32-pin DIP package
Support protocol	PCI 2.1, APM1.2, DMI 2.00.1, E-IDE, ACPI 1.0, ESCD 1.03, ANSI ATA 3.0, PnP 1a, Bootable CD-ROM 1.0, ATAPI
Boot from CD-ROM feature	Yes
Support to LS-120 drive	Yes
Support to BIOS boot block feature	No

NOTE: The BIOS can be overwritten/upgraded using the AFLASH utility (AFLASH.EXE).

BIOS Hotkey List

Hotkey	Function	Description
	Enter BIOS Setup Utility	Press while the system is booting to enter BIOS Setup Utility.
F8	Enable hidden page of BIOS Setup Utility	Press in BIOS Setup Utility main menu screen, the Advanced Options menu then appears. The items on the Advanced Options menu are: Memory/Cache Options PnP/PCI Options
Alt + F4	Enable hidden page of BIOS Setup Utility	Press in BIOS Setup Utility main menu screen, the Advanced Options menu then appears. The items on the Advanced Options menu are: Memory/Cache Options PnP/PCI Options Chips Options

This section has two table lists, system memory specification and the possible combinations of memory module.

System Memory

Item	Specification
Memory socket number	3 sockets (3 banks)
Support memory size per socket	64/128/256MB
Support maximum memory size	512MB
Support memory type	SDRAM
Support memory speed	100/133MHz (PC100/ PC133) (for Local Bus speed 100/133MHz)
Support memory voltage	3.3 V
Support memory module package	168-pin DIMM
Support to parity check feature	Yes
Support to Error Correction Code (ECC) feature.	Yes
Memory module combinations	You can install memory modules in any combination as long as they match the Memory Combination specifications.

Memory Combinations-100 MHz

DIMM 1	DIMM 2	DIMM 3	TOTAL
128M	128M	128M	384M
256M	256M	0M	512M
64M	64M	64M	192M
32M	32M	32M	96M
16M	16M	16M	48M

Memory Combinations-133 MHz

DIMM 1	DIMM 2	DIMM 3	TOTAL
256/DS M	256/DS M	0M	512M
64/SS M	64/SS M	64/SS M	192M
128/SS M	128/SS M	128/SS M	384M

NOTE: For Memory Combinations-133 MHz, if memory is double-sided, only slot 1 and slot 2 will work. The maximum memory size of S58M is 512M. Users can make different combinations of double-sided memory in slot 1 and slot 2; single-sided memory in slot 1, 2, and 3, but, the total memory should not go beyond 512M.

Cache Memory

Item	Specification
First-Level Cache Configurations	
Cache function control	Enable/Disable by BIOS Setup (Advanced options)
Second-Level Cache Configurations Below information is only applicable to system with installed Pentium III processor.	
L2 Cache RAM type	PBSRAM
L2 Cache RAM size	128/256 KB
L2 Cache RAM speed	One-half the processor core clock frequency
L2 Cache RAM voltage	Pentium III processor: 1.65V
L2 Cache function control	Enable/Disable by BIOS Setup
L2 Cache scheme	Fixed in write-back

Video Interface

Item	Specification
Video controller	Embedded in Intel 82801BA ICH II
Video controller resident bus	AGP bus
Video interface support	Video YUV texture in all texture formats H/W DVD accelerator

*32 - 24bpp color data is processed using a 32bpp data format.

Display Screen Resolution	Bits Per Pixel (Frequency in Hz) 8-bit Indexed	Bits Per Pixel (Frequency in Hz) 16-bit Indexed)	Bits Per Pixel (Frequency in Hz) 24-bit Indexed
320x240	70	70	70
320x240	70	70	70
352x480	70	70	70
352x576	70	70	70
400x300	70	70	70
512x384	70	70	70
640x400	70	70	70
640x480	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
720x480	75, 85	75, 85	75, 85
720x576	60, 75, 85	60, 75, 85	60, 75, 85
800x600	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1024x768	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1152x864	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1280x720	60, 75, 85	60, 75, 85	60, 75, 85
1280x960	60, 75, 85	60, 75, 85	60, 75, 85
1280x1024	60, 70, 72, 75, 85	60, 70, 72, 75, 85	60, 70, 72, 75, 85
1600x900	60, 75, 85	60, 75, 85	60, 75, 85
1600x1200	60, 70, 72, 75, 85	Not available	Not available

NOTE: You may disable the on-board video function in the BIOS Utility.

Audio Interface

Item	Specification
Audio controller	Embedded in Intel 82801BA ICH II
Audio controller resident bus	AC'97 link
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Resolution	16 bits
Compatibility	AC'97 2.1 compliant Sound Blaster Pro compatible Mixed digital and analog high performance chip Enhanced stereo full duplex operation High performance PCI audio accelerator Full native DOS games compatibility High-Quality ESFM music synthesizer MPU-401(UART mode) interface for wavetable synthesizers and MIDI devices Integrated dual game port Meets PC 97/PC98 and WHQL specifications
Music synthesizer	Yes
Sampling rate	44.1 KHz
MPU-401 UART support	Yes
Microphone jack	Supported On audio-I/O board (connects via CN8)
Headphone jack	Supported On audio-I/O board (connects via CN8)
Package	QFP64

IDE Interface

Item	Specification
IDE controller	Embedded in Intel 82801BA ICH II
IDE controller resident bus	PCI bus
Number of IDE channel	2 on-board: 40-pin hard disk drive connector,
Support IDE interface	E-IDE (up to PIO mode 4 and Ultra DMA/33, Ultra DMA/66 and Ultra DMA/100 mode 2) ANSIS ATA rev.4.0 ATAPI
Support bootable CD-ROM	Yes

Floppy disk drive Interface

Item	Specification
Floppy disk drive controller	Embedded in LPC 47B277
Floppy disk drive controller resident bus	LPC
Support FDD format	360KB, 720KB, 1.2MB, 1.44MB, 2.88MB; 3-mode

Parallel Port

Item	Specification
Parallel port controller	Embedded in LPC 47B277
Parallel port controller resident bus	LPC
Number of parallel ports	1
Support ECP/EPP	ECP / EPP 1.7 & 1.9
Connector type	25-pin D-type female connector
Parallel port function control	Enable/disable by BIOS Setup
Optional ECP DMA channel (in BIOS Setup)	DMA channel 1 DMA channel 3
Optional parallel port I/O address (via BIOS Setup)	378h 278h
Optional parallel port IRQ (via BIOS Setup)	IRQ5 IRQ7

Serial Port

Item	Specification
Serial port controller	Embedded in Intel 82801BA ICH II
Serial port controller resident bus	LPC
Number of serial port	2
Serial ports location	CN4, COM 2
16550 UART support	Yes
Connector type	10-pin connector
Optional serial port I/O address (via BIOS Setup)	3F8h, 2F8h, 3E8h, 2E8h
Optional serial port IRQ (via BIOS Setup)	4, 3

Modem

Item	Specification
Fax modem data baud rate (bps)	14.4K bps
Data modem data baud rate (bps)	56K bps
Voice modem	Yes
Modem connector type	RJ11
Full duplex	Not applicable

USB Port

Item	Specification
Universal HCI	USB 1.0
USB Class	Support legacy keyboard for legacy mode

Memory Address Map

Address	Size	Function
000000 - 07FFFF	512KBytes	Host Memory
080000 - 09FFFF	128KBytes	Host/PCI Memory
0A0000 - 0BFFFF	128KBytes	PCI/ISA Video Buffer Memory
0C0000 - 0C7FFF	32KBytes	Video BIOS Memory
0C8000 - 0DFFFF	96Kbytes	ISA Card BIOS & Buffer Memory
0E0000 - 0EFFFF	64Kbytes	BIOS Extension Memory Setup and Post Memory PCI Development BIOS
0F0000 - 0FFFFF	64Kbytes	System BIOS Memory
100000 - UPPER LIMIT		Main Memory
UPPER LIMIT - 4GBytes		PCI Memory

PCI INTx# and IDSEL Assignment Map

PCI INTx #	PCI Devices	Device IDSEL: ADxx
INTA#	PCI Slot 1	AD16
INTB#	PCI slot 2	AD17
INTC#	PCI slot 3	AD22

PCI Slot IRQ Routing Map

PCI INTX#	INTA	INTB	INTC	INTD	Bus Mastering
PCI 1	Route 1	Route 2	Route 3	Route 4	Enabled
PCI 2	Route 4	Route 1	Route 2	Route 3	Enabled
PCI 3	Route 3	Route 4	Route 1	Route 2	Enabled

I/O Address Map

Hex Range	Devices
000-00F	DMA Controller-1
020-021	Interrupt Controller-1
040-043	System Timer
060-060	Keyboard Controller 8742
061-061	System Speaker
070-071	CMOS RAM Address and Real Time Clock
081-08F	DMA Controller-2
0A0-0A1	Interrupt Controller-2
0C0-0DF	DMA Controller-2
0F0-0FF	Math Co-Processor
170-177	Secondary IDE
1F0-1F7	Primary IDE
278-27F	Parallel Printer Port 2
2F8-2FF	Serial Asynchronous Port 2
378-37F	Parallel Printer Port 1
3F0-3F5	Floppy Disk Controller
3F6-3F6	Secondary IDE
3F7-3F7	Primary IDE
3F8-3FF	Serial Asynchronous Port 1
0CF8	Configuration Address Register
0CFC	Configuration Data Register
778-77A	Parallel Printer Port 1

IRQ Assignment Map

IRQx	System Devices	Add-On-Card Devices
IRQ0	Timer	N
IRQ1	Keyboard	N
IRQ2	Cascade Interrupt Control	N
IRQ3	Serial Alternate	Reserved
IRQ4	Serial Primary	Reserved
IRQ5	Parallel Port (Alternate)	Reserved
IRQ6	Floppy Diskette	Reserved
IRQ7	Parallel Port	Reserved
IRQ8	Real Time Clock	N
IRQ9	N	Reserved
IRQ10	N	Reserved
IRQ11	N	Reserved
IRQ12	PS/2 Mouse	Reserved
IRQ13	Math Co-processor Exception	N
IRQ14	Fix Diskette	Reserved
IRQ15	Fix Diskette	Reserved

NOTE: N - Not in use

DRQ Assignment Map

DRQx	System Devices	Add-On-Card Devices
DRQ0	N	Reserved
DRQ1	N	Reserved
DRQ2	Floppy Diskette	N
DRQ3	N	Reserved
DRQ4	Cascade	N
DRQ5	N	Reserved
DRQ6	N	Reserved
DRQ7	N	Reserved

NOTE: N - Not in use

Main Board Major Chips

Item	Controller
North Bridge	Intel 82815 GMCH
South Bridge	Intel 82801BA ICH II
Super I/O controller	SMSC LPC47B277
Audio controller	Built-in Intel 82801 ICH
LAN controller	Intel 82562EM
HDD controller	Built-in Intel 82801BA ICH II
Keyboard controller	Built-in Intel 82801BA ICH II
RTC	Built-in Intel 82801BA ICH II

Environmental Requirements

Item	Specifications
Temperature	
Operating	+10 ~ +35°C
Non-operating	-20 ~ +60°C (Storage package)
Humidity	
Operating	20% to 80% RH
Non-operating	20% to 80% RH
Vibration	
Operating (unpacked)	5 ~ 16.2 Hz: 0.38 mm 16.2~250 Hz: 0.2G
Non-operating (packed)	5 ~ 27.1 Hz: 0.6 G 27.1 ~ 50 Hz: 0.4 mm 50 ~ 500 Hz: 2 G

Mechanical Specifications

Item	Specification
Weight One 3.5 FDD and one 3.5 HDD (without packing)	Depends on local configuration
Dimensions (main footprint)	Veriton 5100:

Switching Power Supply 145W

Input Frequency	Frequency Variation Range
50Hz	47Hz to 53Hz
60Hz	57Hz to 63Hz

Input Voltage	Variation Range
100 - 120 VRMS	90-132 VRMS
200 - 240 VRMS	180-264 VRMS

Input Current	Measuring Range
4A	90 -132 VRMS
3A	180 - 264 VRMS

(This is for 145 power supply)

- NOTE:** 1. This "4A" includes the outlet supply current: 2A.
2. Measure at line input 90VRMS and maximum load condition.

Output Requirements	Regulation	Current Rating
+5V	+5%	15A
+12V	+5%	3A
-12V	+10%	0.3A
+3.3V	+5%	12A
-5V	+10%	0A
+5Vaux	+5%	1A

NOTE: +5V and 3.3V total power is 100W max.

Power Management Functions

Device Standby Mode

- Independent power management timer for hard disk drive devices (0-15 minutes, time step=1 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable V-sync to control the VESA DPMS monitor.
- Resume method: device activated (Keyboard for DOS, keyboard & mouse for Windows).
- Resume recovery time: 3-5 sec.

Global Standby Mode

- Global power management timer (2-120 minutes, time step=10 minute).
- Hard disk drive goes into Standby mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Resume recovery time: 7-10 sec.

Suspend Mode

- Independent power management timer (2-120 minutes, time step=10 minutes) or pushing external switch button
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on the panel turns amber color.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Return to original state by pushing external switch button.

Suspend to RAM

- The system context is maintained in system memory
- Power is shut to non-critical circuits.
- Memory is retained, and refreshes continually.
- All clocks shut except RTC.
- Return to original state by pushing external switch button & "PME" events at ACPI mode.

System Utilities

Most systems are already configured by the manufacturer or the dealer. There is no need to run Setup when starting the computer unless you get a Run Setup message.

The Setup program loads configuration values into the battery-backed nonvolatile memory called CMOS RAM. This memory area is not part of the system RAM.

NOTE: If you repeatedly receive Run Setup messages, the battery may be bad. In this case, the system cannot retain configuration values in CMOS.

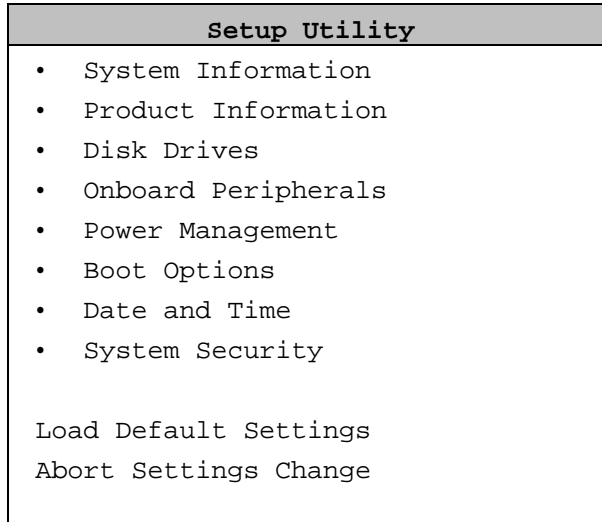
Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

Entering Setup

To enter Setup, press the key combination **CTRL** **ALT** **ESC**.

NOTE: You must press **CTRL** **ALT** **ESC** simultaneously while the system is booting.

The Setup Utility main menu then appears:

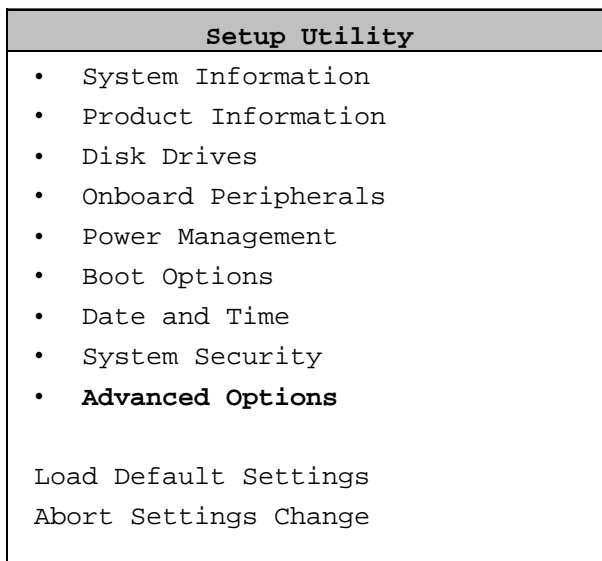


The system supports two BIOS Utility levels: Basic and Advanced. The above screen is the BIOS Utility Basic Level screen. It allows you to view and change only the basic configuration of your system.

If you are an advanced user, you may want to check the detailed configuration of your system. Detailed system configurations are contained in the Advanced Level. To view the Advanced Level menu, press **F8** or the **Alt + F4** keys simultaneously.

NOTE: The **F8** and **Alt + F4** keys work only when you are in the main menu. This means that you can activate the advanced level and hidden information only when you are in the main menu.

The following screen shows the Advanced Level main menu:



The command line at the bottom of the menu tells you how to move within a screen and from one screen to another.

- ❑ To select an option, move the highlight bar by pressing **↑** or **↓** then press **ENTER**.
- ❑ Press **PGDN** to move to the next page or **PGUP** to return to the previous page.
- ❑ To change a parameter setting, press **←** or **→** until the desired setting is found.
- ❑ Press **ESC** to return to the main menu. If you are already in the main menu, press **ESC** again to exit Setup.

The parameters on the screens show default values. These values may not be the same as those in your system.

The grayed items on the screens have fixed settings and are not user-configurable.

System Information

The following screen appears if you select System Information from the main menu.

System Information	
Processor	Pentium III
Processor Speed	600 MHz
Level 1 Cache	32 KB, Enabled
Level 2 Cache	256 KB, Enabled
Diskette Drive A	1.44 MB 3.5-inch
Diskette Drive B	None
IDE Primary Channel Master	HardDisk,xxxx M.B.
IDE Primary Channel Slave	None
IDE Secondary Channel Master	IDE CD-ROM
IDE Secondary Channel Slave	None
Total Memory	64 MB
1st Bank.....	SDRAM, 32 MB
2nd Bank.....	SDRAM, 32 MB
3rd Bank.....	none
Serial Port 1	3F8h, IRQ 4
Serial Port 2	Disabled
Parallel Port	378h, IRQ 7
PS/2 Mouse	Installed

This page shows the current basic configuration of your system.

The following table describes the parameters found in the System Information pages:

Parameter	Description	Format
Processor	Specifies the type of processor currently installed in your system.	
Processor Speed	Specifies the speed of the processor currently installed in your system.	
Level 1 Cache	Specifies the first-level or the internal memory (i.e., the memory integrated into the processor) size, and whether it is enabled or disabled.	Cache size in KB
Level 2 Cache	Specifies the second-level cache memory size currently supported by the system.	Cache size in KB
Diskette Drive A	Shows the diskette drive A type.	Capacity, dimension
Diskette Drive B	Shows the diskette drive B type.	Capacity, dimension
IDE Primary Channel Master	Specifies the current configuration of the IDE device connected to the master port of the primary IDE channel.	Drive type, capacity
IDE Primary Channel Slave	Specifies the current configuration of the IDE device connected to the slave port of the primary IDE channel.	Drive type, capacity

Parameter	Description	Format
IDE Secondary Channel Master	Specifies the current configuration of the IDE device connected to the master port of the secondary IDE channel.	Drive type, capacity
IDE Secondary Channel Slave	Specifies the current configuration of the IDE device connected to the slave port of the secondary IDE channel.	Drive type, capacity
Total Memory	Specifies the total amount of onboard memory. The memory size is automatically detected by BIOS during the POST. If you install additional memory, the system automatically adjusts this parameter to display the new memory size.	Memory size in MB
1st Bank	Indicates the type of DRAM installed in the DIMM 1 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
2nd Bank	Indicates the type of DRAM installed in the DIMM 2 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
3rd Bank	Indicates the type of DRAM installed in the DIMM 3 socket. The None setting indicates that there is no DRAM installed.	DIMM type, capacity in MB
Serial Port 1	If enabled, indicates the IRQ and Direct Memory Address (DMA) assigned to serial port 1.	DMA, IRQ
Serial Port 2	If enabled, indicates the IRQ and Direct Memory Address (DMA) assigned to serial port 2.	DMA, IRQ
Parallel Port	If enabled, indicates the IRQ and Direct Memory Address (DMA) assigned to the parallel port.	DMA, IRQ
PS/2 Mouse	Specifies the presence of a PS/2 mouse	Installed or Disabled

Product Information

The screen below appears if you select Product Information from the main menu:

Product Information	
Product Name	Acer Veriton 5100/7100
System S/N	N/A
Main Board ID	S58M
Main Board S/N	N/A
System BIOS Version	V4.0
SMBIOS Version	2.3
*System BIOS ID.....	R01-A0 EN
*BIOS Release Date.....	Jan 03, '00

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. These information is necessary for troubleshooting (maybe required when asking for technical support).

The following table describes the parameters found in this menu:

Parameter	Description
Product Name	Displays the model name of your system.
System S/N	Displays your system's serial number.
Main Board ID	Displays the main board's identification number.
Main Board S/N	Displays your main board's serial number.
System BIOS Version	Specifies the version of your BIOS utility.
SMBIOS version	The System Management Interface (SM) BIOS allows you to check your system hardware components without actually opening your system. Hardware checking is done via software during start up. This parameter specifies the version of the SMBIOS utility installed in your system.
System BIOS ID	Specifies the version ID of the BIOS utility.
BIOS Release Date	Displays the release date of the BIOS utility.

Disk Drives

Select Disk Drives from the main menu to configure the drives installed in your system.

NOTE: The following screen shows the Disk Drives menu:

The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

Disk Drives
Diskette Drive A[1.44 MB 3.5-inch]
Diskette Drive B[None]
<ul style="list-style-type: none"> • * IDE Primary Channel Master • * IDE Primary Channel Slave • * IDE Secondary Channel Master • * IDE Secondary Channel Slave

The following table describes the parameters found in this menu.

Parameter	Description	Options
Diskette Drive A / B	Allows you to configure your floppy drive	None 360 KB, 5.25-inch 1.2 MB, 5.25-inch 720 KB, 3.5-inch 1.44 MB, 3.5-inch 2.88 MB, 3.5-inch
IDE Primary Channel Master	Lets you configure the hard disk drive connected to the master port of IDE channel 1.	
IDE Primary Channel Slave	Lets you configure the hard disk drive connected to the slave port of IDE channel 1.	
IDE Secondary Channel Master	Lets you configure the hard disk drive connected to the master port of IDE channel 2.	
IDE Secondary Channel Slave	Lets you configure the hard disk drive connected to the slave port of IDE channel 2.	

The following screen appears if you select any of the IDE drive parameters:

IDE Primary Channel Master	
Device Detection Mode	[Auto]
Device Type.....	Hard Disk
Cylinder.....	[8354]
Head.....	[16]
Sector.....	[63]
Size.....	[4311] M.B.
Hard Disk LBA Mode	[Auto]
*Hard Disk Block Mode.....	[Auto]
*Hard Disk 32 Bit Access.....	[Enabled]
*Advanced PIO Mode.....	[Enabled]
*DMA Transfer Mode.....	[Enabled]

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

IDE Primary Channel Slave	
Device Detection Mode	[Auto]
Device Type.....	None
Cylinder.....	[0]
Head.....	[0]
Sector.....	[0]
Size.....	[0] M.B.

IDE Secondary Channel Master	
Device Detection Mode	[Auto]
Device Type.....	None
Cylinder.....	[0]
Head.....	[0]
Sector.....	[0]
Size.....	[0] M.B.

IDE Secondary Channel Slave	
Device Detection Mode	[Auto]
Device Type.....	IDE CD-ROM
*Advanced PIO Mode	[Enabled]
*DMA Transfer Mode	[Enabled]

NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The following table describes the parameters found in this menu.

Parameter	Description	Options
Device Detection Mode	Lets you specify the type of hard disk installed in your system. If you want BIOS to automatically configure your hard disk, select Auto. If you know your hard disk type, you can enter the setting manually. Setting this parameter also sets the Cylinder, Head, Sector, and Size parameters.	Auto , None, or User. The User setting allows you to enter your settings manually if you know your hard disk type. The Auto setting also sets the Cylinder, Head, Sector, and Size parameters.
Device Type	Display the type of device installed.	Not configurable. The default is Hard Disk .

Parameter	Description	Options
Cylinder	Specifies your hard disk's number of cylinders, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Cylinder will be available; Otherwise it is non-configurable.
Head	Specifies your hard disk's number of heads, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Head will be available; Otherwise it is non-configurable.
Sector	Specifies your hard disk's number of sectors, and is automatically set depending on your Type parameter setting.	Only Device Detection Mode is set to User, the item Sector will be available; Otherwise it is non-configurable.
Size	Specifies the size of your hard disk, in MB, and is automatically set depending on your Type parameter setting	It will turn to gray and will be non- configurable.
Hard Disk LBA Mode	Set to "Auto" under DOS and Windows. Set to "Disabled" under Novell Netware and Unix.	Auto or Disabled
Hard Disk Block Mode	This function enhances disk performance depending on the hard disk in use. If you set this parameter to Auto, the BIOS utility automatically detects if the installed hard disk drive supports the Block Mode function. If supported, it allows data transfer in blocks (multiple sectors) at a rate of 256 bytes per cycle.	Auto or Disabled
Hard Disk 32-bit Access	Enabling this parameter improves system performance by allowing the use of the 32-bit hard disk access. This enhanced IDE feature works only under DOS, Windows 3.x, Windows 95/98, Windows NT, and Novell NetWare.	Enabled or Disabled
Advanced PIO Mode	When set to Auto, the BIOS utility automatically detects if the installed hard disk supports the function, it allows for faster data recovery and read/ write timing that reduces hard disk activity time. This results in better hard disk performance.	Auto , Mode 0, 1, 2, 3 or 4
DMA Transfer Mode	The Ultra DMA and Multi-DMA modes enhance hard disk performance by increasing the transfer rate. However, besides enabling these features in the BIOS Setup, both the Ultra DMA and Multi-DMA modes require the DMA driver to be loaded.	Auto Multiword Mode 0, 1, 2 Ultra Mode 0, 1, 2, 3, 4 Disabled

Onboard Peripherals

The Onboard Peripherals menu allows you to configure the onboard devices. Selecting this option from the main menu displays the following screen:

Onboard Peripherals	
Serial Port 1	[Enabled]
Base Address	[3F8h]
IRQ	[4]
Serial Port 2	[Disabled]
Base Address	[---]
IRQ	[---]
Parallel Port	[Enabled]
Base Address	[378h]
IRQ	[7]
Operation Mode	[EPP]
ECP DMA Channel	[-]
Floppy Disk Controller	[Enabled]
IDE Controller	[Both]
PS/2 Mouse Controller	[Enabled]
USB Host Controller	[Enabled]
USB Legacy Mode	[Enabled]
Onboard Audio Chip	[Enabled]
Game Port Address	[201]
Midi Port Address	[330]
Midi Port IRQ	[5]

The following table describes the parameters found in this menu.

Parameter	Description	Options
Serial Port 1	Lets you enable or disable the serial port 1.	Enabled or Disabled
Serial Port 2	Lets you enable or disable the serial port 2.	Disabled or Enabled
Base Address	Lets you set a logical base address for each serial port. This parameter is configurable only if the Serial Port parameter is enabled.	3F8h (for serial port 1), 2F8h (for serial port 2), 3E8h, 2E8h
IRQ	Lets you assign an interrupt for each serial port. This parameter is configurable only if the Serial Port parameter is enabled.	4 or 11(for serial port 1), 3 or 10 (for serial port 2)
Parallel Port	Lets you enable or disable the parallel port.	Enabled or Disabled
Base Address	Lets you set a logical base address for the parallel port. This parameter is configurable only if the Parallel Port parameter is enabled.	3BCh, 378h , 278h
IRQ	Lets you assign an interrupt for the parallel port. This parameter is configurable only if the Parallel Port parameter is enabled.	7 or 5
Operation Mode	Lets you set your parallel port's operation mode. This parameter is configurable only if the Parallel Port parameter is enabled.	Enhanced Parallel Port (EPP) Bidirectional Standard Parallel Port (SPP) Extended Capabilities Port (ECP)
ECP DMA Channel	Allows you to assign a DMA channel for the ECP parallel port function. This parameter is configurable only if you select the Extended Capabilities Port (ECP) as the operation mode.	1 or 3

Parameter	Description	Options
Floppy Disk Controller	Lets you enable or disable the onboard floppy disk controller.	Enabled or Disabled
IDE Controller	Lets you enable or disable the onboard primary, secondary or both IDE interfaces.	Both , Primary, or Disabled
PS/2 Mouse Controller	Lets you enable or disable the onboard PS/2 mouse controller	Enabled or Disabled
USB Host Controller	Lets you enable or disable the onboard USB host controller.	Enabled or Disabled
USB Legacy Mode	Lets you activate or deactivate the USB keyboard connected to your system. When activated, the USB keyboard functions in a DOS environment.	Enabled or Disabled
Onboard Audio Chip	Lets you enable or disable the onboard audio controller	Enabled or Disabled
Game Port Address	Sets the I/O base address of the game port.	201 , 209, or Disabled
Midi Port Address	Sets the I/O base address of the midi port.	330 , 300, or Disabled
Midi Port IRQ	Sets the IRQ channel of the midi port.	5 or 10

Power Management

The Power Management menu lets you configure the system power-management feature. It works only under APM mode.

IMPORTANT: If an ACPI-aware operating system such as Windows 98 or Windows 2000 is installed in ACPI mode, the operating system will use the ACPI interfaces. Then the settings in Power Management page is non-effective.

The following screen shows the Power Management parameters and their default settings:

Power Management	
Power Management Mode	[Enabled]
IDE Hard Disk Standby Timer	[OFF]
System Sleep Timer	[OFF]
Sleep Mode	[-----]
Power Switch < 4 sec	[Suspend]
System wake-up event	
Modem Ring Indicator	[Disabled]
PCI Power Management	[Enabled]
RTC Alarm	[Disabled]
Resume Day	[--]
Resume Time	[--:--:--]
Restart on AC/Power Failure	[Disabled]
ACPI Sleep State	[S1]

The following table describes the parameters found in this menu.

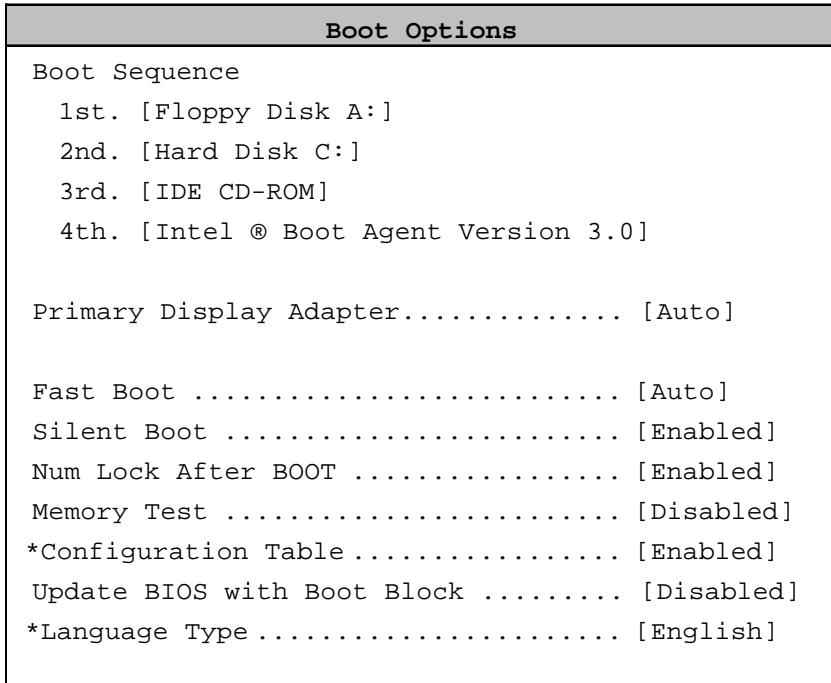
Parameter	Description	Options
Power Management Mode	Allows you to reduce the system's power consumption. When enabled, the IDE hard disk and system timers become configurable.	Enabled or Disabled
IDE Hard Disk Standby Timer	Allows the hard disk to enter Standby mode after inactivity of 1 to 15 minutes, depending on your setting.	Off or 1 to 15 minutes
System Sleep Timer	Automatically puts the system to power-saving mode after a specified period of inactivity. Any keyboard or mouse action, or any activity detected from the IRQ channels resumes system operation.	Off, or 2, 5, 10, 15, 20, 30, 40, 50...120 minutes
Sleep Mode	Lets you specify the power-saving mode that the system will enter after a specified period of inactivity. This parameter is configurable only if the System Sleep Timer is enabled.	Suspend or Standby

Parameter	Description	Options
Power Switch < 4 sec.	Lets you specify whether to automatically turn off the machine or put the system to Suspend mode when the power switch is pressed for less than 4 seconds.	Suspend or Power Off
System Wake-up Event	Lets you specify the activity that will resume the system to normal operation.	
Modem Ring Indicator	Wakes the system from Sleep mode once any fax/modem activity is detected.	Disabled or Enabled
PCI Power Management	Allows the system to be awoken by the PME function.	Enabled or Disabled
RTC Alarm	Allows you to set a certain time on a certain day to wake-up your system from suspend mode.	Disabled or Enabled
Resume Day	If RTC alarm is enabled, the system will resume operation at the time indicated here.	User Input
Resume Time	If RTC alarm is enabled, the system will resume operation at the time indicated here.	User Input
Restart on AC/ Power Failure	When power failure occurs, your system automatically stops functioning. Setting this parameter to Enabled lets you set your computer to automatically turn on once power resumes. The Disabled setting leaves the computer off.	Disabled or Enabled
ACPI Sleep State	When set to S1, system enters standby mode when power management mode is enabled. When set to S3, system enters suspend to RAM mode.	S1 or S3

Boot Options

This option allows you to specify your preferred settings for bootup.

The following screen appears if you select Boot Options from the main menu:



NOTE: The asterisk (*) mark indicates that the parameter appears only when you are in the Advanced Level.

The following table describes the parameters found in this menu.

Parameter	Description	Options
Boot Sequence	Allows you to specify the boot search sequence.	Floppy Disk Hard Disk IDE CD-ROM Intel (R) Boot Agent Version 3.0 (boot from LAN)
Primary Display Adapter	Lets you activate the onboard video controller as your primary adapter, or automatically disable it once BIOS detects that there is a video card installed in your system.	Auto or Onboard
Fast Boot	Allows you to define your system's booting process, whether to skip some POST routines or proceed with the normal booting process.	Auto or Disabled
Silent Boot	When enabled, BIOS is in graphical mode and displays only an identification logo during POST and while booting. Then, the screen displays the operating system prompt (as in DOS) or logo (as in Windows). If any error occurs while booting, the system automatically switches to the text mode. You may also switch to the text mode while booting by pressing F9 after you hear a beep that indicates the activation of the keyboard.	Enabled or Disabled

Parameter	Description	Options
Num Lock After Boot	Allows you to activate or deactivate the Num Lock function upon booting.	Enabled or Disabled
Memory Test	Lets you specify whether you want BIOS to perform or bypass the memory test. This parameter is only available when Fast Boot is disabled.	Disabled or Enabled
Configuration Table	This parameter allows you to enable or disable the display of the configuration table after POST but before booting. The configuration table gives a summary of the hardware devices and settings that BIOS detected during POST.	Enabled or Disabled
Update BIOS w/ Boot Block	When enabled, it automatically flashed the BIOS file from the hard disk drive in case the system fails to boot up.	Disabled or Enabled
Language Type	Select the language.	English or Japanese

Date and Time

The following screen appears if you select the Date and Time option from the main menu:

Date and Time	
Date	[Mon Jan 03, 2000]
Time	[HH:MM:SS]

The following table describes the parameters found in this menu:

Parameter	Description	Options
Date	Lets you set the date following the weekday-month-day-year format.	Weekday: Sun, Mon, Tue, Wed, Thu, Fri, Sat Month: Jan, Feb...Dec Day: 1 to 31 Year: 1980 to 2099
Time	Lets you set the time following the hour-minute-second format.	Hour: 0 to 23 Minute: 0 to 59 Second: 0 to 59

System Security

The Setup program has a number of security features to prevent unauthorized access to the system and its data.

The following screen appears if you select System Security from the main menu:

System Security	
Supervisor Password	[None]
User Password	[----]
Disk Drive Controller	
Floppy Drive	[Normal]
Hard Disk Drive	[Normal]
Processor Serial Number	[Disabled]

The following table describes the parameters found in this menu.

Parameter	Description	Options
Supervisor Password	Prevents unauthorized access to the BIOS utility.	None or Present. The Present setting allows you to set a Setup password. For instructions on how to set a Setup password, refer to "Setting a Password" on page 45.
User Password	Secures your system against unauthorized use. Once you set this password, you have to type it whenever you boot the system.	
Disk Drive Controller	Allows you to protect your system's floppy drive and hard disk data from being modified (possible under DOS mode only).	
Floppy Drive	Protects your floppy drive data from being modified.	Normal , Write Protect All Sectors, Write Protect Boot Sectors
Hard Disk Drive	Protects your hard disk data from being modified.	Normal , Write Protect All Sectors, Write Protect Boot Sectors
Processor Serial Number		

Setting a Password

3. Enter the BIOS utility and select "System Security".
4. Highlight the "Supervisor Password" parameter to set a Setup password, or "User Password" to set a power-on password. Then press the left or right arrow key. The following screen appears:

Supervisor Password	
Enter your Password twice. The Password may be up to 7 characters long.	
Enter Password	[□□□□□□□]
Enter Password again	[□□□□□□□]
Set or Change Password	

5. Type a password. The password may consist of up to seven characters. Then press **Enter**.
6. Retype the password then press **Enter**.
7. After setting the password, highlight the "Set or Change Password" option.
8. Press **Esc** to return to the System Security screen. If you have set a Supervisor password (and/or User password), the Supervisor Password (and/or User password) setting automatically changes to **Present**.
9. Press **Esc** to return to the Main menu.
10. Press **Esc** to exit the BIOS utility. A dialog box appears asking if you want to save the CMOS data.
11. Select "Yes" to save the changes and reboot the system.

If you have set a Supervisor password, the next time you want to enter the BIOS utility, you must key-in your Supervisor password.

If you have set a User password, you will be prompted to enter that password every time you boot your system.

Changing or Removing the Password

If you want to **change one of your passwords**, do the following:

1. Enter the BIOS utility and select "System Security".
2. Highlight the "Supervisor Password" parameter (for Supervisor password) or the "User Password" parameter (a Supervisor Password must be set first before you can change the User password). The Password menu appears.
3. From the Password menu, highlight the "Set or Change Password" option.
4. Enter a new password.
5. Press **Esc** to return to the System Security screen.
6. Press **Esc** to return to the main menu.
7. Press **Esc** to exit the BIOS utility. A dialog box appears asking if you want to save the CMOS data.
8. Select "Yes" to save the changes.

To remove the password, simply select the "Supervisor Password" parameter (for Supervisor password) or the "User Password" parameter (a Supervisor Password must be set first before you can change the User password) from the System Security menu and set it to "None".

Bypassing the Password

If you forgot your password, you can bypass the password security feature thru hardware configuration.

RTC Battery

Follow these steps to bypass the password:

1. Turn off and unplug the system.
2. Open the system housing. Take off battery and short it.
3. Place on RTC battery, reboot the system and enter setup menu, to load default setting.

Clear CMOS

Follow these steps to bypass the password:

1. Reset CMOS, by adjusting JPX1 to **1-2**
2. Reboot the system.
3. Adjust the JPX1 back to **2-3**

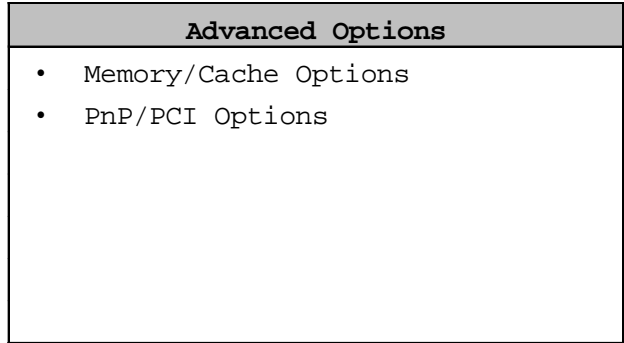
Password Check

Follow the step to bypass the password:

1. Adjust JPXB to **2-3**

Advanced Options

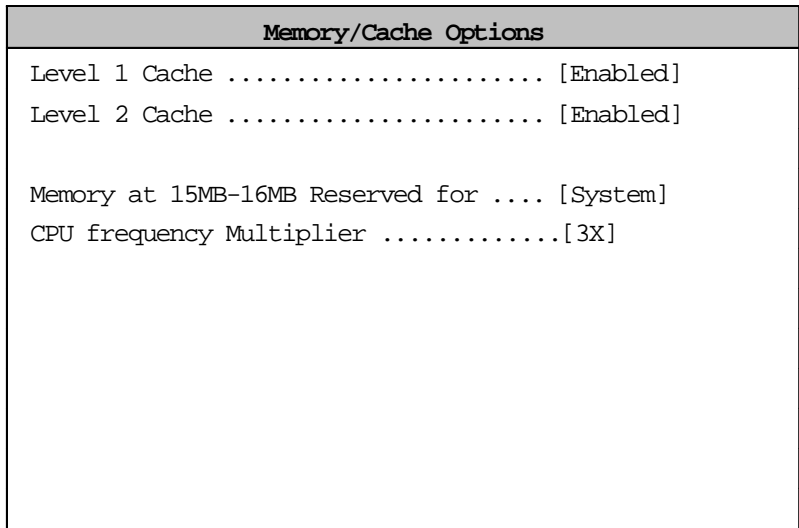
NOTE: The Advanced Options menu is only available if you press **F8** or **Alt + F4** in the main menu. The “Advanced Options” menu allows you to configure the system memory and PCI device settings. The following screen shows the Advanced Options parameters:



CAUTION: Do not change any settings in the Advanced Options menu if you are not a qualified technician to avoid damaging the system.

Memory/Cache Options

Selecting “Memory/Cache Options” from the Advanced Options menu displays the following screen: This menu lets you configure the system memory.



The following table describes the parameters found in this sub-menu.

Parameter	Description	Options
Level 1 Cache (processor Cache)	Lets you enable or disable the primary cache memory, i.e., the processor memory.	Enabled or Disabled
Level 2 Cache	Lets you enable or disable the secondary cache memory.	Enabled or Disabled

Parameter	Description	Options
Memory at 15MB-16MB Reserved for	To prevent memory address conflicts between the system and expansion boards, reserve this memory range for the use of either the system or an expansion board. Some VGA cards have required settings for this feature. Check your VGA card manual before setting this parameter.	System or Expansion board
CPU Frequency Multiplier	Sets the Core/bus ratio of your system. The clock speed of the bus does not necessarily equal the CPU's (core). The bus clock speed is often slower than the CPU clock speed.	3X, 3.5X, 4X, 4.5X.....8X

PnP/PCI Options

The PnP/PCI Options menu allows you to specify the settings for your PCI devices. Selecting this option displays the following screen:

PnP/PCI Options				
PCI IRQ Setting [Auto]				
	INTA	INTB	INTC	INTD
PCI Slot 1	[--]	[--]	[--]	[--]
PCI Slot 2	[--]	[--]	[--]	[--]
PCI Slot 3	[--]	[--]	[--]	[--]
PCI IRQ Sharing [Yes]				
VGA Palette Snoop [Disabled]				
Graphics Aperture Size [64] MB				
Plug and Play OS [Yes]				
Reset Resource Assignments [No]				

The following table describes the parameters found in this sub-menu.

Parameter	Description	Options
PCI IRQ Setting	Select Auto to let BIOS automatically configure the plug-and-play (PnP) devices installed in your system. Otherwise, select Manual. Note: Refer to your PCI card manual for technical information.	Auto or Manual
PCI Slot 1	When you set the PCI IRQ Setting parameter to Auto, these parameters specify the auto-assigned interrupt for each of the PCI devices. If you set the PCI IRQ Setting parameter to Manual, you need to specify the interrupt that you want to assign for each PCI device installed in your system.	User input
PCI IRQ Sharing	Setting this parameter to Yes allows you to assign the same IRQ to two different devices. To disable the feature, select No. Note: If there are no IRQs available to assign for the remaining device function, we recommend that you enable this parameter.	Yes or No
VGA Palette Snoop	This parameter permits you to use the palette snooping feature if you installed more than one VGA card in the system. The VGA palette snoop function allows the control palette register (CPR) to manage and update the VGA RAMDAC (Digital Analog Converter, a color data storage) of each VGA card installed in the system. The snooping process lets the CPR send a signal to all the VGA cards so that they can update their individual RAMDACs. The signal goes through the cards continuously until all RAMDAC data has been updated. This allows the display of multiple images on the screen. Note: Some VGA cards have required settings for this feature. Check your VGA card manual before setting this parameter.	Disabled or Enabled

Parameter	Description	Options
Graphics Aperture Size	This parameter determines the effective size of the graphics aperture. Graphics aperture is the address range that the AGP video and the CPU use to manage graphical objects. The lowest setting is 8 MB and the highest is 256 MB.	User input
Plug and Play OS	When this parameter is set to Yes, BIOS initializes only PnP boot devices such as SCSI cards. When set to No, BIOS initializes all PnP boot and non-boot devices such as sound cards. Note: Set this parameter to Yes only if your operating system is Windows 95/98/2000.	Yes or No
Reset Resource Assignments	Set this parameter to Yes to avoid IRQ conflict when installing non-PnP or PnP ISA cards. This clears all resource assignments and allows BIOS to reassign resources to all installed PnP devices the next time the system boots. After clearing the resource data, the parameter resets to No.	No or Yes

Chipset Settings

The Chipset Settings will be shown only if you press **Alt + F4** in main menu:

Advanced Options
<ul style="list-style-type: none"> • Memory/Cache Options • PnP/PCI Options • *Chipset Settings

Press Enter to view the Chipset settings information.

The following screen displays the Chipset settings menu:

Chipset Settings	
• Spread Spectrum	[Enabled]
• ICH Audio Codec	[Enabled]
• ICH SMBUS Controller	[Enabled]
• Delay Transaction	[Enabled]
• Determine DIMM Frequency	[Auto]

Parameter	Description	Options
Spread Spectrum	This parameter lets you enable or disable the spread spectrum.	Enabled or Disabled
ICH Audio Codec	This parameter lets you enable or disable the ICH Audio Codec.	Enabled or Disabled
ICH SMBUS Controller	This parameter lets you enable or disable the ICH SMBUS controller.	Enabled or Disabled
Delay Transaction	This parameter lets you enable or disable delay transaction.	Enabled or Disabled
Determine DIMM Frequency	This parameter lets you set the frequency of DIMM.	Auto , PC100 or PC133

Load Default Settings

You need to reload the BIOS default settings every time you make changes to your system hardware configuration (such as memory size, CPU type, hard disk type, etc.); otherwise, BIOS will keep the previous CMOS settings. Selecting this option displays the following dialog box:

Load Default Settings	
Do you want to load default settings?	
[Yes]	*[No]

Choosing Yes enables BIOS to automatically detect the hardware changes that you have made in your system. This option also allows you to restore the default settings.

Choosing No returns you to the main menu without loading the default settings.

Abort Settings Change

Selecting the Abort Settings Change option from the main menu displays the following dialog box:

Abort Settings Change	
Do you really want to abort settings change?	
*[Yes]	[No]

Choosing Yes discards all the changes that you have made and reverts the parameters to their previously saved settings.

Choosing No returns you to the main menu. BIOS retains all changes that you have made.

Exiting Setup

To exit the BIOS utility, simply press **Esc**. The following dialog box appears:

Exit Setup
Settings have been changed. Do you really want to exit setup?
*[Yes] [No]

Select Yes to exit Setup. Select No to return to the main menu.

Exit Setup
Settings have been changed. Do you want to save CMOS settings?
*[Yes] [No]

If you have made changes in the parameter settings, you will be asked if you want to keep the changes made to the BIOS. Select Yes to save your changes before you exit Setup. Select No to discard all changes and exit Setup.

Machine Disassembly and Replacement

This chapter contains 2 separate step-by-step procedures on how to disassemble the Veriton 5100 and 7100 desktop computer for maintenance and troubleshooting.

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat-bladed screwdriver
- Phillips screwdriver
- Hexagonal screwdriver
- Plastic stick

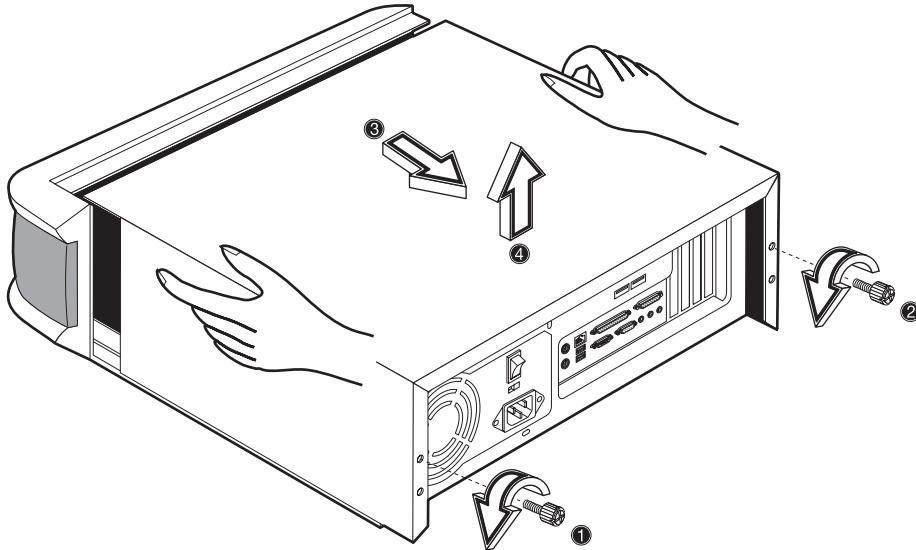
NOTE: The screws for the different components vary in size. During the disassembly process, group the screws with the corresponding components to avoid mismatches when putting back the components.

Disassembling the Veriton 5100

Removing the Housing Cover

CAUTION: Before you proceed, make sure that you have turned off the system and all peripherals connected to it.

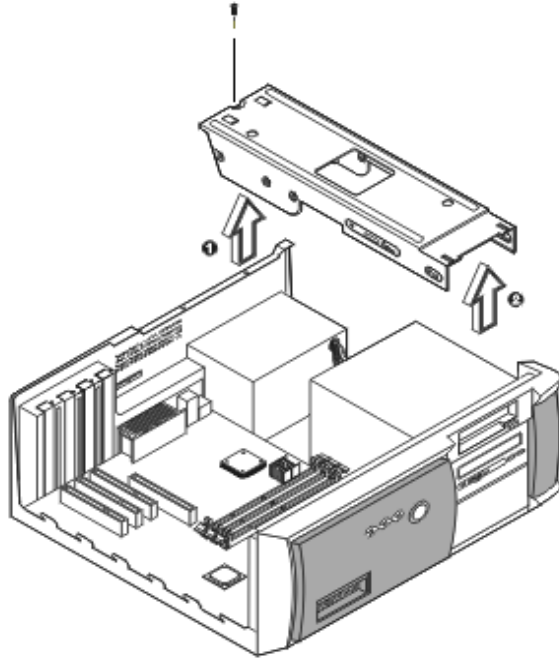
1. Turn off the system power and unplug all cables.
2. Place the system unit on a flat, steady surface.
3. Turn the thumbscrews counterclockwise to remove the cover. Set the screws aside. You will need the when replacing the housing cover.



4. Hold the sides of the cover with both hands. Slide it back about an inch and then gently pull it outward to detach it.

Removing a Link Bar

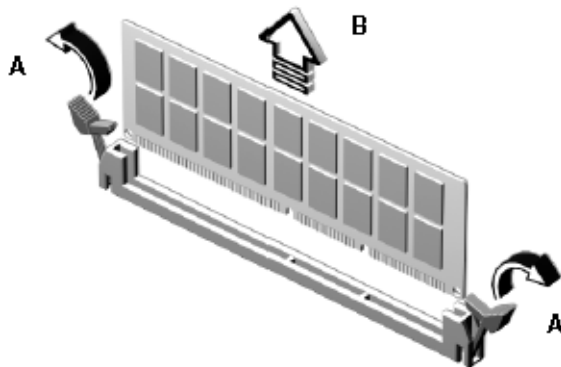
1. To remove a link bar, remove the screw that secures it to the housing.



2. Then gently lift the link bar and pull it out.

Removing a DIMM

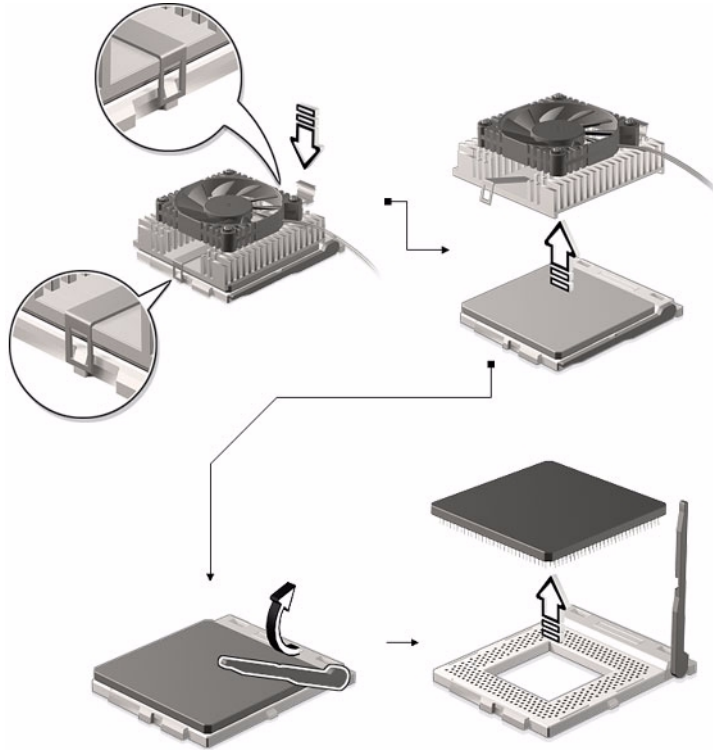
1. Press the latches on both sides of the DIMM socket outward, to release the DIMM.
2. Then gently lift the DIMM out to remove it.



Removing the Processor

Follow these steps to remove the processor:

1. Detach the fan/heatsink cable connector .
2. Remove the fan/heatsink from the processor.
3. Pull the socket lever up to release the processor pins from the socket holes.
4. Pull out the processor from the socket.

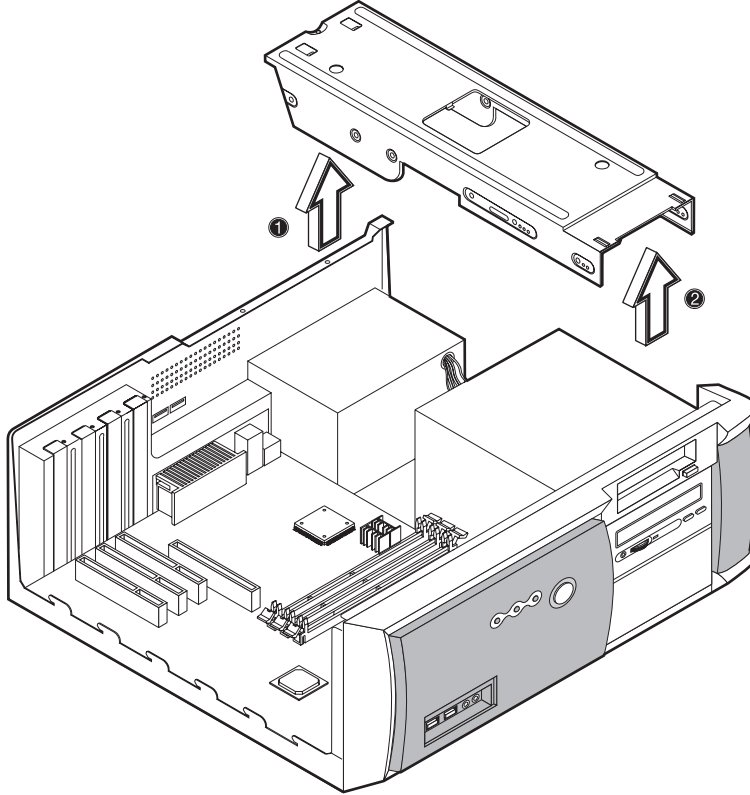


WARNING:The heatsink becomes very hot when the system is On. Never touch the heatsink with any metal or with your hands.

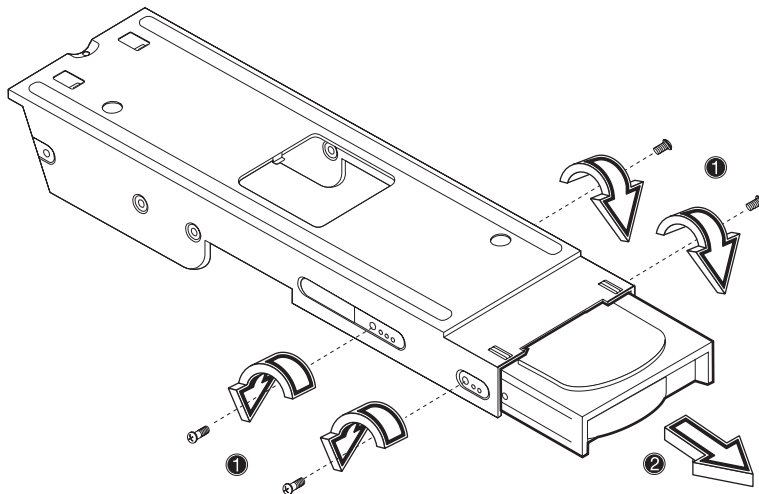
Removing the Hard Disk Drive and 3.5-inch Diskette Drive

Follow these steps to remove the hard disk drive:

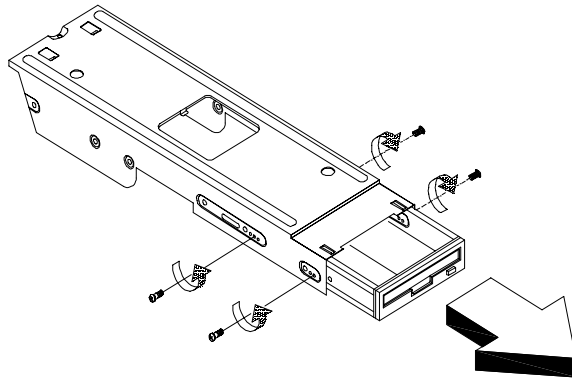
1. Detach the power and disk drive cables from the hard disk and diskette drive.
2. Remove the screw that secures the link bar to the housing.
3. Lift up the link bar and pull it out.



4. Remove the four screws that hold the hard disk drive to the disk frame and detach the hard disk drive. Set the screws aside.

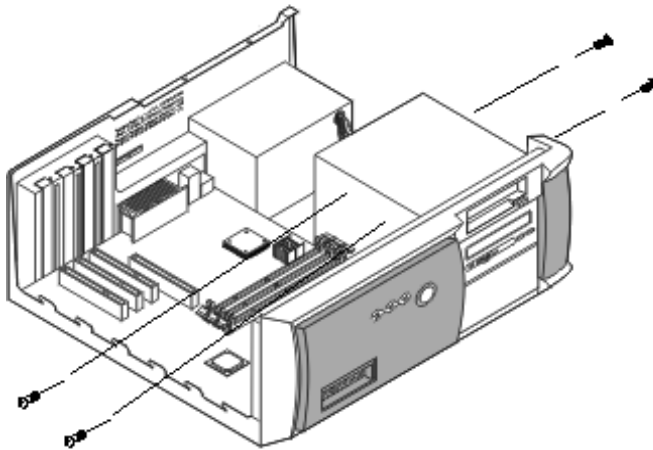


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5. Remove the four screws that hold the diskette drive to the disk frame and pull out the diskette drive.



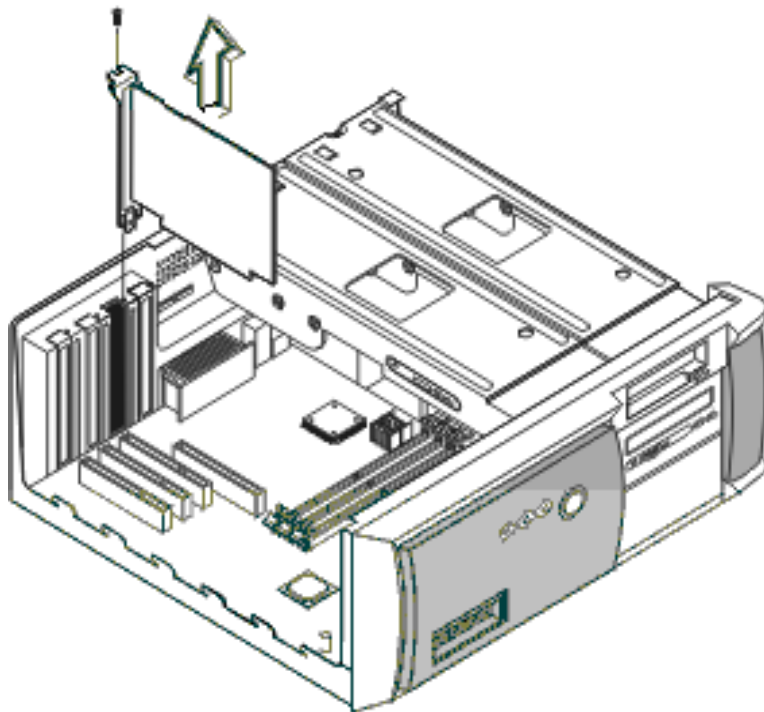
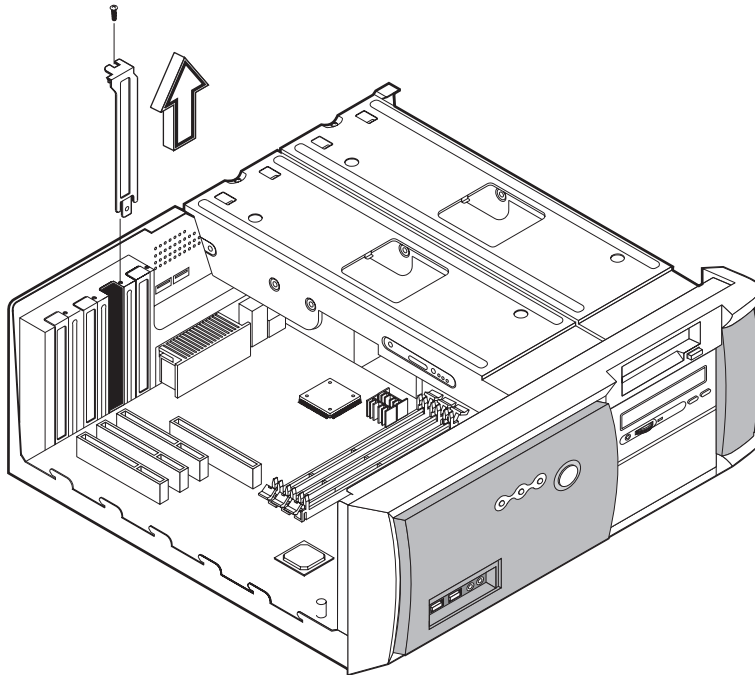
Removing the CD-ROM Drive

1. Remove the four screws that hold the CD-ROM drive to the bracket frame and pull out the CD-ROM drive.



Removing the PCI and AGP Expansion Cards

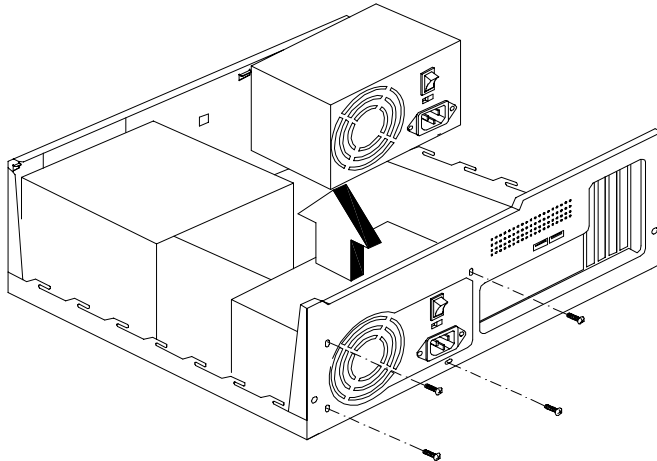
1. Remove the screw on the bracket of an expansion card. Set the screw aside. You will need it when replacing the expansion card.
2. Gently pull out the expansion card to remove it from the expansion slot.



NOTE: When you turn on the system, BIOS automatically detects and assigns resources to the PCI devices.

Removing the Power Supply

1. Remove the four screws that hold the power supply to the housing and pull out the power supply.



Disassembling the Veriton 7100

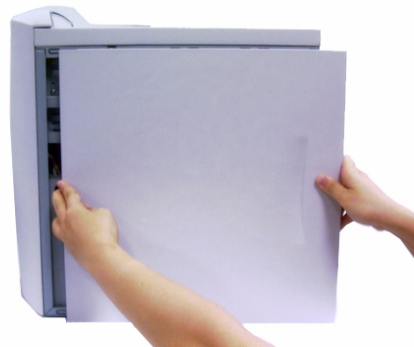
Opening the Housing

This section tells you how to open the housing cover when you need to install additional components inside the system unit.

CAUTION: Before you proceed, make sure that you have turned off the system and all peripherals connected to it.

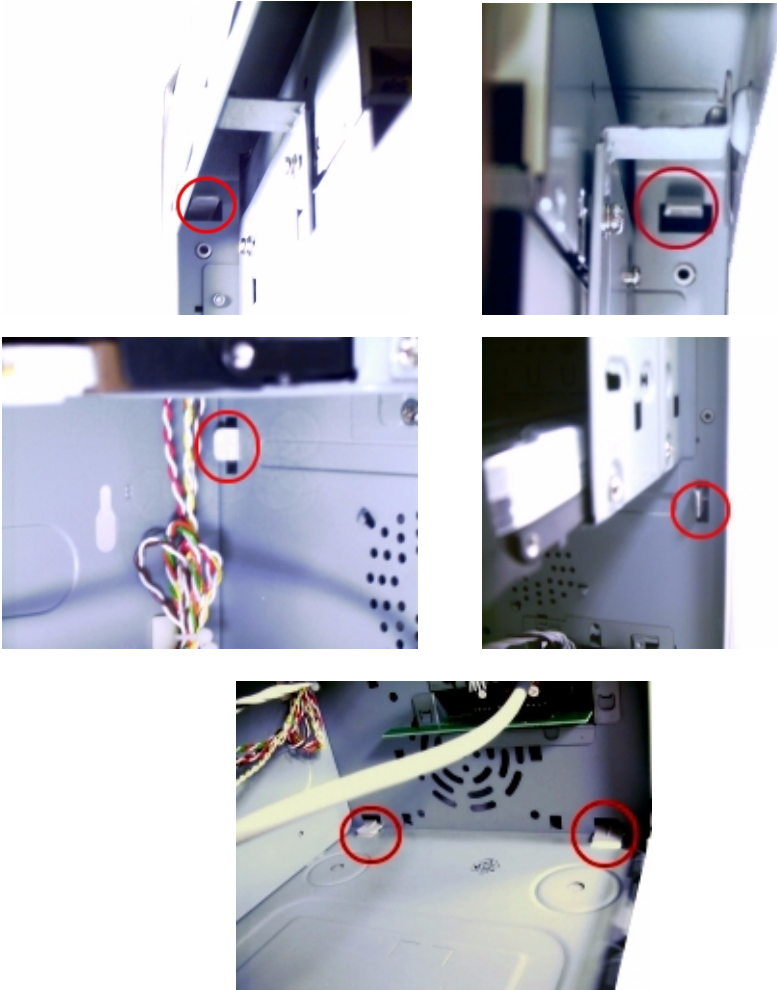
Removing the Housing Cover

1. Turn off the system power and unplug all cables.
2. Place the system unit on a flat, steady surface.
3. Remove the four screws of the right panel using a screwdriver. Set the screws aside, you will need the when replacing the right panel of the unit.
4. Slide the right panel out and then gently pull it outward to detach it from the housing. Do the same for the left panel.



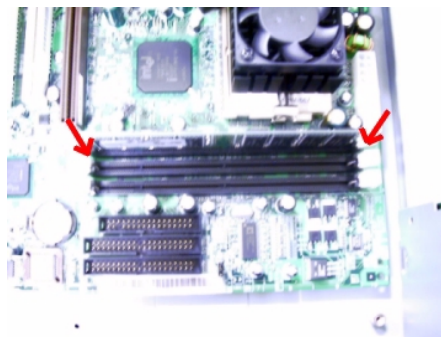
Removing the Front Panel

1. Release the 6 latches as shown below that holds the front panel and then it from the housing.



Removing a DIMM

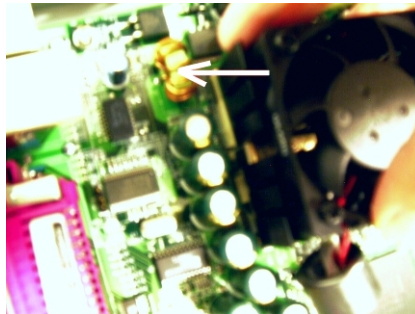
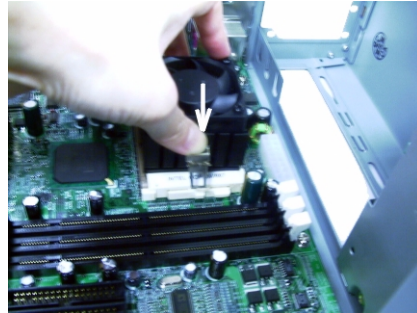
1. Press the latches on both sides of the DIMM socket outward, to release the DIMM.
2. Then gently lift the DIMM out to remove it.



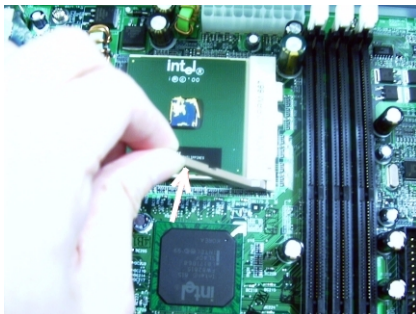
Removing the Processor

Follow these steps to remove the processor:

1. Detach the fan/heatsink cable connector .
2. Remove the fan/heatsink from the processor.



3. Pull the socket lever up to release the processor pins from the socket holes.
4. Pull out the processor from the socket.

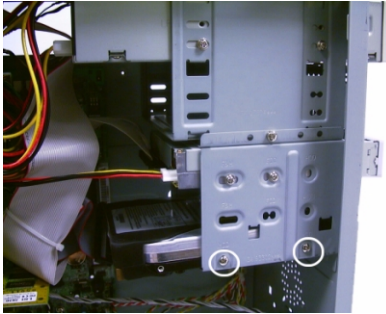


WARNING:The heatsink becomes very hot when the system is On. Never touch the heatsink with any metal or with your hands.

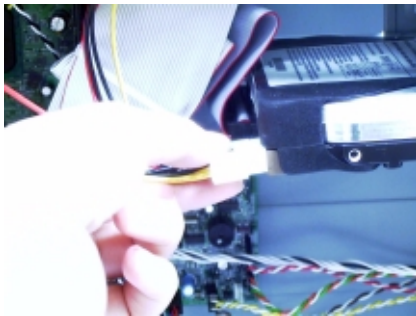
Removing the Hard Disk

Follow these steps to remove the hard disk drive:

1. Remove the four screws that hold the hard disk drive to the disk frame. Set the screws aside.



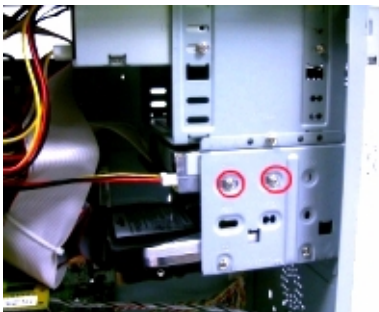
2. Detach the power and disk drive cables from the hard disk drive, then detach the hard disk from the drive frame.



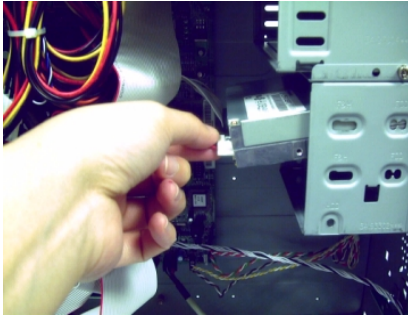
Removing the Diskette Drive

Follow these steps to remove the diskette drive:

1. Remove the four screws holding the diskette drive.



-
2. Disconnect the power connector and the diskette drive cable, then remove the diskette drive from the housing.



Removing the CD-ROM/DVD-ROM/CD-RW Drive

Follow these steps to remove the CD-ROM/DVD-ROM/CD-RW drive:

1. Remove the four screws holding the CD-ROM/DVD-ROM/CD-RW drive,



2. Disconnect the power connector, CD-ROM/DVD-ROM/CD-RW drive cable, and audio cable, then remove the CD-ROM/DVD-ROM/CD-RW drive from the housing.



Removing the PCI and AGP Expansion Cards

1. Remove the screw on the bracket of the expansion card. Set the screw aside, you will need it when replacing the expansion card.
2. Gently pull out the expansion card to remove it from the expansion slot.



NOTE: When you turn on the system, BIOS automatically detects and assigns resources to the PCI or AGP devices.

Removing the Audio Board

1. Disconnect the audio cable and the USB cable from the audio board.



2. Remove the 2 screws that hold the audio board, then remove it from the housing.



Removing the System Main Board

1. Put the housing to lying position with the open area facing upward.
2. Remove the seven screws holding the main board and then remove the main board from the housing.



Removing the Power Supply

1. Disconnect the power supply power connector from the main board.
2. Remove the four screws holding the power supply, and then remove the power supply from the housing..



Removing the Intrusion Alarm

1. Remove the screw that secures the intrusion alarm and then remove it from the housing.



Troubleshooting

This chapter provides troubleshooting information for the Veriton 5100/7100:

- Power-On Self-Test (POST)
- Index of Error Messages
- Index of Error Codes and Error Beeps
- Index of Error Symptoms
- Undetermined Problems

Power-On Self-Test (POST)

Each time you turn on the system, the Power-on Self Test (POST) is initiated. Several items are tested during POST, but is for the most part transparent to the user.

The Power-On Self Test (POST) is a BIOS procedure that boots the system, initializes and diagnoses the system components, and controls the operation of the power-on password option. If POST discovers errors in system operations at power-on, it displays error messages on screen, generates a check point code at port 80h or even halts the system if the error is fatal.

The main components on the main board that must be diagnosed and/or initialized by POST to ensure system functionality are as follows:

- Microprocessor with built-in numeric co-processor and cache memory subsystem
- Direct Memory Access (DMA) controller
- Interrupt system
- Three programmable timers
- ROM subsystem
- RAM subsystem
- RTC RAM subsystem and real time clock/calendar with battery backup
- Onboard serial interface controller
- Onboard parallel interface controller
- Embedded hard disk interface and one diskette drive interface
- Keyboard and auxiliary device controllers
- I/O ports
 - PS/2-compatible mouse port
 - PS/2-compatible keyboard port
- Serial ports
- Parallel ports
- USB port

POST Error Messages List

If you cannot run the diagnostics program tests but did receive a POST error message, use “POST Error Messages List” to diagnose system problems. If you did not receive any error message, look for a description of your error symptoms in “Error Symptoms List” on page 75.

NOTE: When you have deemed it necessary to replace an FRU, and have done so, you must run a total system check to ensure that no other activity has been affected by the change. This system check can be done through the diagnostics program.

NOTE: Check all power supply voltages, switch, and jumper settings before you replace the main board. Also check the power supply voltages if you have a “system no-power” condition.

If you are unable to correct the problem by using the “BIOS Messages List” table and “Error Symptoms List” table, go to “Undetermined Problems” on page 79.

NOTE: To diagnose a problem, first find the BIOS error messages in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

BIOS Messages	Action/FRU
I/O Parity Error	1. System board
CPU Clock Mismatch	1. Enter BIOS Setup and load the default settings. 2. Ensure BIOS setting for processor is set correctly.
Real Time Clock Error CMOS Battery Bad CMOS Checksum Error	1. Enter BIOS Setup and load the default settings. 2. RTC Battery. 3. System Board.
Equipment Configuration Error	1. Ensure the system configuration set in BIOS Setup is correct. 2. Enter BIOS Setup and load the default settings. 3. RTC battery. 4. System board.
System Management Memory Bad Memory Error at MMMM:SSSS:OOOOh	1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. System board.
RAM Parity Error	1. Enter BIOS Setup to disable parity check. 2. Memory module 3. System board
PS/2 Keyboard Error or Keyboard Not Connected PS/2 Keyboard Interface Error PS/2 Keyboard Locked	1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 keyboard 4. PS/2 mouse 5. System board
Onboard xxx... Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.
Floppy Disk Controller Error Floppy Drive A Error Floppy Drive B Error	1. Diskette drive cable/connection. 2. Diskette drive. 3. System board
On Board Parallel Port Conflict(s) On Board Serial Port 1 Conflict(s) On Board Serial Port 2 Conflict(s)	1. Enter BIOS Setup and load the default settings. 2. Remove all adapter cards that are NOT factory-installed, then reboot the system.
Floppy Drive(s) Write Protected Hard Disk Drive(s) Write Protected	1. Ensure that the diskette drive is not set to [Write Protected] in the Security Options in BIOS Setup. 2. Load default settings in Setup.

BIOS Messages	Action/FRU
IDE Drive 0 Error IDE Drive 1 Error IDE Drive 2 Error IDE Drive 3 Error	<ol style="list-style-type: none"> 1. Enter BIOS Setup and load the default settings. 2. Check IDE drive jumper. 3. IDE hard disk drive power. 4. IDE hard disk drive cable/connection. 5. IDE hard disk drive.
IRQ Setting Error Expansion ROM Allocation Fail I/O Resource Conflict(s) Memory Resource Conflict(s)	<ol style="list-style-type: none"> 1. Load default settings in Setup. 2. Enter BIOS Setup and set the Reset Resource Assignments of the PnP/PCI Options to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system
PCI Device Error	<ol style="list-style-type: none"> 1. Load default settings in Setup. 2. Enter BIOS Setup and set the Reset Resource Assignments of the PnP/PCI Options to Yes, then reboot the system. 3. Remove all adapter cards that are NOT factory-installed, then reboot the system.
PS/2 Pointing Device Interface Error PS/2 Pointing Device Error	<ol style="list-style-type: none"> 1. Re-connect PS/2 keyboard and mouse. 2. Enter BIOS Setup and load the default settings. 3. PS/2 mouse 4. PS/2 keyboard 5. System board
DMI Table Was Destroyed	<ol style="list-style-type: none"> 1. Flash BIOS
Press Ctrl + Alt + Esc key to enter Setup or F1 key to continue	<ol style="list-style-type: none"> 1. Press Ctrl+Alt+Del to enter Setup and reconfigure the system.
Press Esc to turn off NMI, or any key to reboot	<ol style="list-style-type: none"> 1. Press Esc to reject NMI error or press any other key to reboot the system.
Insert system diskette and press <Enter> key to reboot	<ol style="list-style-type: none"> 1. Insert a bootable disk into the floppy disk drive or remove this disk if a hard disk is installed.

Error Symptoms List

NOTE: To diagnose a problem, first find the error symptom in the left column. If directed to a check procedure, replace the FRU indicated in the check procedure. If no check procedure is indicated, the first Action/FRU listed in right column is the most likely cause.

Error Symptom	Action/FRU
Processor / Processor Fan	
NOTE: Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems.	
Processor fan does not run but power supply fan runs.	<ol style="list-style-type: none"> 1. Ensure the system is not in power saving mode. See "Power Management" in chapter 2. 2. With the system power on, measure the voltage of processor fan connector. Its reading should be +12Vdc. 3. System board.
Processor test failed.	<ol style="list-style-type: none"> 1. Processor. 2. System board.
System Board and Memory	
NOTE: Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems.	
Memory test failed.	<ol style="list-style-type: none"> 1. See "Memory" 2. System board
Incorrect memory size shown or repeated during POST.	<ol style="list-style-type: none"> 1. Insert the memory modules in the DIMM sockets properly, then reboot the system. 2. Memory module. 3. System board.
System works but fails to enter power saving mode when the Power Management Mode is set to Enabled, and power saving timer set in BIOS has elapsed.	<ol style="list-style-type: none"> 1. Enter BIOS Setup and load default settings. In Windows 98, check settings in Power Management Property of Control Panel. 2. Reload software from Recovery CD.
System hangs before system boot.	<ol style="list-style-type: none"> 1. See "Index of Symptoms" 2. See "Undetermined Problems"
System hangs after system boot.	<ol style="list-style-type: none"> 1. Execute a system test and set it to stop at "Halt on Error" to see the potential cause of the problem. 2. See "Undetermined Problems".
Blinking cursor only; system does not work.	<ol style="list-style-type: none"> 1. Diskette/IDE drive connection/cables 2. Diskette/IDE disk drives 3. See "Undetermined Problems". 4. System board
Diskette Drive	
NOTE: Ensure the diskette drive is configured correctly in BIOS Setup and its read/write head is clean before diagnosing any diskette drive problems.	
Media and drive are mismatched.	<ol style="list-style-type: none"> 1. Ensure the diskette drive is configured correctly in the Disk Drives of BIOS Setup. 2. Ensure the diskette drive is correctly formatted. 3. Diskette drive connection/cable 4. Diskette drive 5. System board
Diskette drive does not work.	<ol style="list-style-type: none"> 1. Ensure the diskette drive is not set to None in the Disk Drives of BIOS Setup. 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. System board

Error Symptom	Action/FRU
Diskette drive read/write error.	<ol style="list-style-type: none"> 1. Diskette. 2. Ensure the diskette drive is not set to <code>Write protect</code> in the Security Options of BIOS Setup. 3. Diskette drive cable. 4. Diskette drive. 5. System board.
Diskette drive LED comes on for more than 2 minutes when reading data.	<ol style="list-style-type: none"> 1. Diskette 2. Diskette drive connection/cable 3. Diskette drive 4. System board
Diskette drive LED fails to light, and the drive is unable to access for more than 2 minutes.	<ol style="list-style-type: none"> 1. Diskette 2. Diskette drive power 3. Diskette drive connection/cable 4. Diskette drive 5. System board
Diskette drive test failed.	<ol style="list-style-type: none"> 1. Diskette 2. Diskette drive 3. Diskette drive cable 4. System board
Hard Disk Drive	
NOTE: Ensure hard disk drive is configured correctly in BIOS Setup, cable/jumper are set correctly before diagnosing any hard disk drive problems.	
Hard disk drive test failed.	<ol style="list-style-type: none"> 1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. System board.
Hard disk drive cannot format completely.	<ol style="list-style-type: none"> 1. Enter BIOS Setup and Load default settings. 2. Hard disk drive cable. 3. Hard disk drive. 4. System board.
Hard disk drive has write error.	<ol style="list-style-type: none"> 1. Enter BIOS Setup and Load default settings. 2. Hard disk drive.
Hard disk drive LED fails to light, but system operates normally.	<ol style="list-style-type: none"> 1. With the system power on, measure the voltage of hard disk LED connector. 2. Hard drive LED cable.
CD/DVD-ROM Drive	
NOTE: Ensure CD/DVD-ROM drive is configured correctly in BIOS Setup, cable/jumper are set correctly and its laser beam is clean before diagnosing any CD/DVD-ROM drive problems.	
CD/DVD-ROM drive LED doesn't come on but works normally.	<ol style="list-style-type: none"> 1. CD/DVD-ROM drive
<p>CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off.</p> <p>Software asks to reinstall disc.</p> <p>Software displays a reading CD/DVD error.</p>	<ol style="list-style-type: none"> 1. CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc. 2. CD/DVD-ROM is not inserted properly. 3. CD/DVD-ROM is damaged.
CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held.	<ol style="list-style-type: none"> 1. Disconnect all cables from CD/DVD-ROM drive except power cable, then press eject button to try to unload the disk. 2. CD/DVD-ROM drive power. 3. CD/DVD-ROM drive
CD/DVD-ROM drive does not read and there are no messages are displayed.	<ol style="list-style-type: none"> 1. CD may have dirt or foreign material on it. Check with a known good disc. 2. Ensure the CD/DVD-ROM driver is installed properly. 3. CD/DVD-ROM drive.

Error Symptom	Action/FRU
CD/DVD-ROM drive can play audio CD but no sound output.	<ol style="list-style-type: none"> 1. Ensure the headphone jack of the CD/DVD-ROM has an output. 2. Turn up the sound volume. 3. Speaker power/connection/cable. 4. CD/DVD-ROM drive.
Real-Time Clock	
Real-time clock is inaccurate.	<ol style="list-style-type: none"> 1. Ensure the information in the <i>Date and Time</i> of BIOS Setup is set correctly. 2. RTC battery. 3. System board
Audio	
Audio software program invokes but no sound comes from speakers.	<ol style="list-style-type: none"> 1. Speaker power/connection/cable.
Modem	
Modem ring cannot wake up system from suspend mode.	<ol style="list-style-type: none"> 1. Ensure the <i>Modem Ring Indicator</i> in BIOS Setup or <i>Power Management</i> is set to <i>Enabled</i>. 2. If PCI modem card is used, reinsert the modem card to PCI slot firmly or replace the modem card. 3. If ISA modem card is used, ensure the modem ring-in cable from the modem card to system board is connected properly. 4. In Win 98, ensure the telephone application is configured correctly for your modem and set to receive messages and/or fax.
Data/fax modem software program invokes but cannot receive/send data/fax	<ol style="list-style-type: none"> 1. Ensure the modem card is installed properly.
Fax/voice modem software program invokes but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system sound feature works normally.)	<ol style="list-style-type: none"> 1. Ensure the modem voice-in cable from modem adapter card to system board
Video and Monitor	
Video memory test failed. Video adapter failed.	<ol style="list-style-type: none"> 1. Remove all non-factory-installed cards. 2. Load default settings (if screen is readable). 3. System board
Display problem: - Incorrect colors No high intensity Missing, broken, or incorrect characters Blank monitor(dark) Blank monitor(bright) Distorted image Unreadable monitor Other monitor problems	<ol style="list-style-type: none"> 1. Monitor signal connection/cable. 2. Monitor 3. Video adapter card 4. System board
Display changing colors.	<ol style="list-style-type: none"> 1. Monitor signal connection/cable 2. Monitor 3. System board
Display problem not listed above (including blank or illegible monitor).	<ol style="list-style-type: none"> 1. "Monitor". 2. Load default settings (if screen is readable). 3. System board

Error Symptom	Action/FRU
Parallel/Serial Ports	
Execute "Load BIOS Default Settings" in BIOS Setup to confirm ports presence before diagnosing any parallel/serial ports problems.	
Serial or parallel port loop-back test failed.	<ol style="list-style-type: none"> 1. Make sure that the LPT# or COM# you test is the same as the setting in BIOS Setup. 2. Loop-back. 3. System board.
Printing failed.	<ol style="list-style-type: none"> 1. Ensure the printer driver is properly installed. Refer to the printer service manual. 2. Printer. 3. Printer cable. 4. System board.
Printer problems.	<ol style="list-style-type: none"> 1. Refer to the service manual for the printer.
Keyboard	
Some or all keys on keyboard do not work.	<ol style="list-style-type: none"> 1. Keyboard
Power Supply	
Pressing power switch does not turn off system. (Only unplugging the power cord from electrical outlet can turn off the system.)	<ol style="list-style-type: none"> 1. Ensure the Power Switch < 4 sec. in BIOS Setup of Power Management is not set to Suspend. 2. Power switch cable assembly
Pressing power switch does not turn on the system.	<ol style="list-style-type: none"> 1. Ensure the power override switch (situated at the back of the machine, just above the connector for the power cable) is not set to OFF. 2. Power switch cable assembly.
Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power switch can turn off the system).	<ol style="list-style-type: none"> 1. Load default settings. 2. Reload software from Recovery CD.
No system power, or power supply fan is not running.	<ol style="list-style-type: none"> 1. Power Supply 2. System Board
Other Problems	
Any other problems.	<ol style="list-style-type: none"> 1. Undetermined Problems

Undetermined Problems

If an error message is present, go to "POST Error Messages List" on page 73. If you did not receive any messages, see if the symptom is listed in "or "Error Symptoms List" on page 75. If you still cannot solve the problem, continue with this check:

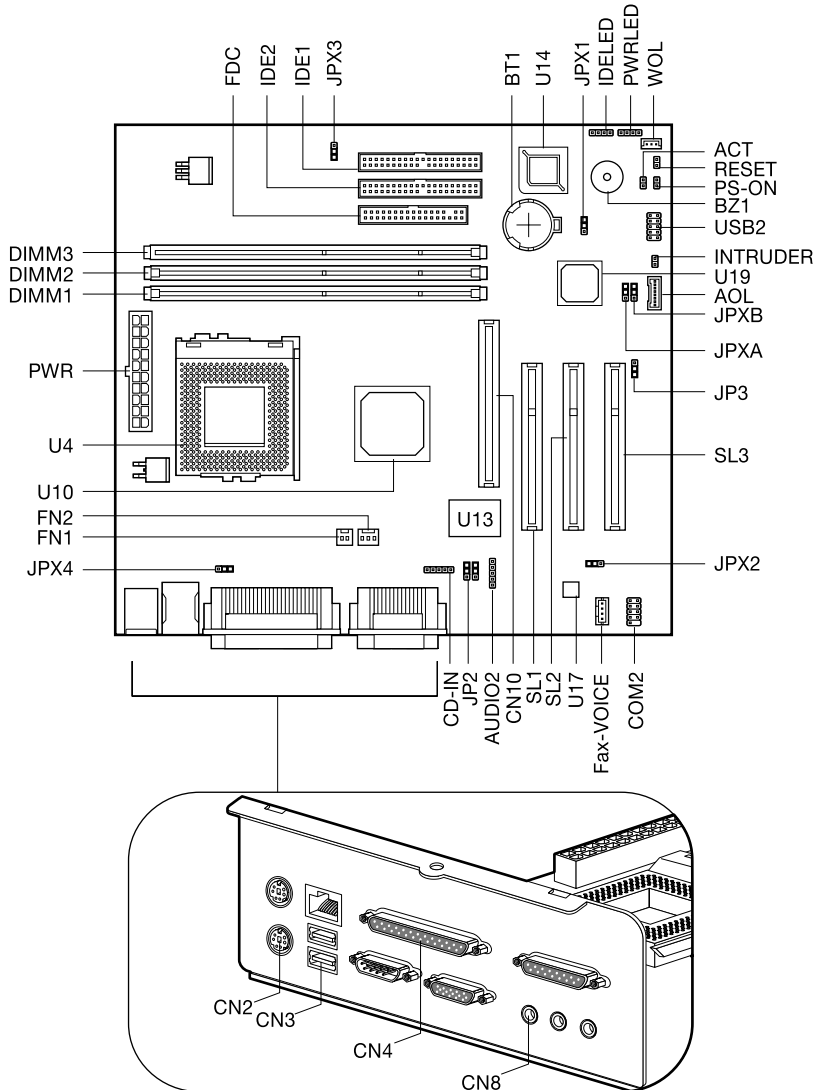
1. Check the power supply voltages. If the voltages are correct continue with the following steps:
2. Power off the system unit.
3. Perform the following checks, one by one, until you have isolated the problem FRU.
4. Load default settings in setup.
5. Check all system board jumper positions and switch settings.
6. Check all adapter card jumper positions.
7. Check all device jumper positions.
8. Check all cables and connectors for proper installation.
9. If the jumpers, switches and voltage settings are correct, remove or disconnect the following, one at a time:
 10. Non-Acer devices
 - External devices
 - Any adapter card (modem card, LAN card or video card, if installed)
 - CD/DVD-ROM drive
 - Diskette drive
 - Hard disk drive
 - DIMM
 - Processor
 - System board
11. Power on the system unit.
12. Repeat steps 2 through 5 until you find the failing device or adapter.

Jumper and Connector Information

Jumpers and Connectors

Refer to the following figure for the location of the jumpers and connectors on the main board:

Main board



Connector Description

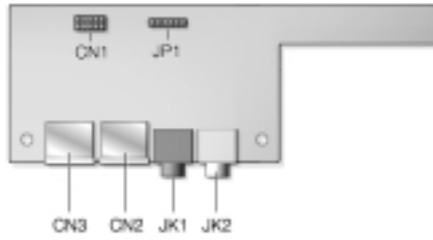
Connector No.	Description
ACT	Turbo/LAN active LED connector
AOL	Alert on LAN connector
AUDIO2	Audio connector for USB-audio board
BT1	Battery
BZ1	Buzzer
CD-IN	CD-ROM audio connector
CN2	PS/2 mouse (upper) and keyboard (lower) ports
CN3	Network (upper) and USB (lower) ports
CN4	Parallel (upper), VGA (lower right) and serial port 1 (lower left) ports
CN8	MIDI/game (upper), line-out (left), line-in (middle), and mic-in (right) ports
CN10	AGP slot
COM2	Serial port 2 (COM2) connector (optional)
DIMM 1 to 3	DIMM sockets 1 to 3
FDC	Floppy disk drive connector
FN1	2-pin CPU fan connector
FN2	3-pin CPU fan connector
IDELED	IDE LED connector
IDE1	IDE 1 HDD connector
IDE2	IDE 2 HDD connector
INTRUDER	Intrusion alarm connector
PS-ON	ATX power switch
PWR	ATX power connector
PWRLED	Power LED connector
RESET	Reset button connector
SL 1 to 3	PCI slots 1 to 3
USB2	USB connector for USB-audio board
U4	FC-PGA CPU socket
U10	Intel 82815 chipset
U13	Super I/O chipset
U14	Firmware HUB (BIOS)
U17	Audio chipset
U19	Intel 82801BA chipset
WOL	Wake on LAN connector

Jumper Setting

Jumper	Function and settings
JP2 1-3, 2-4 3-5, 4-6*	Line-out options Unamplified Amplified
JP3 1-2* 2-3	LAN EEPROM Enabled Disabled
JPXA 1-2 2-3*	Boot block Enabled Disabled
JPXB 1-2 2-3*	Check password Enabled Disabled
JPX1 1-2 2-3*	CMOS clear Clear CMOS Normal
JPX2 1-2 2-3*	CPU speed Safe mode Normal
JPX3 1-2* 2-3	Support CPU Coppermine/Celeron VIA (Cyrix)/Joshua
JPX4 1-2* 2-3	Onboard LAN Enabled Disabled

NOTE: *: Default Settings

Audio Board



Connector No.	Description
JP1	Audio connector-connects to the AUDIO2 connector of the mainboard
CN1	USB connector-connects to the USB2 connector of the mainboard
CN2, CN3	USB ports
JK1	Microphone-in port
JK2	Audio-out port

FRU (Field Replaceable Unit) List

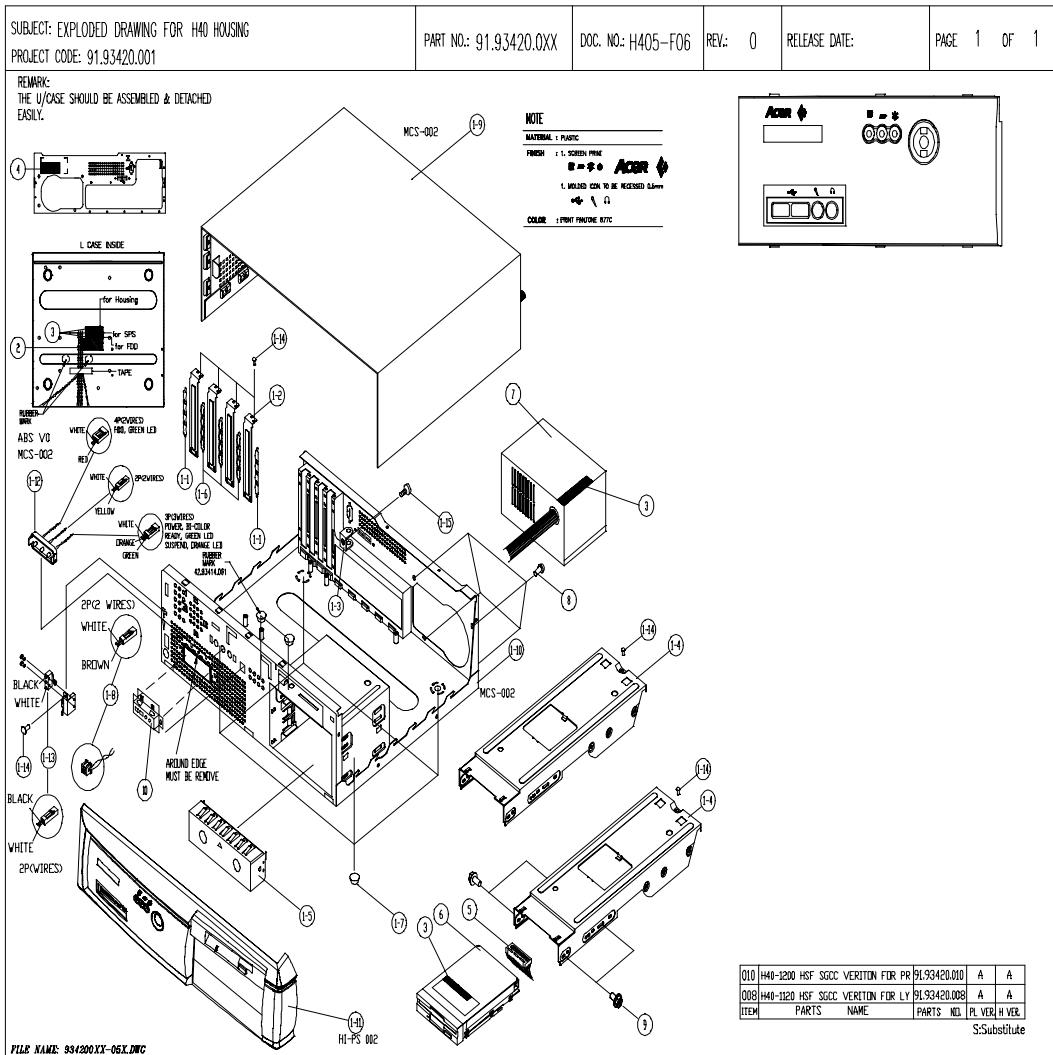
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of Veriton 5100/7100. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

IMPORTANT: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel. For whatever reasons a part number change is made, it will not be noted in the printed Service Guide. For ACER-AUTHORIZED SERVICE PROVIDERS, your Acer office may have a DIFFERENT part number code to those given in the FRU list of this printed Service Guide. You MUST use the local FRU list provided by your regional Acer office to order FRU parts for repair and service of customer machines.

NOTE: To scrap or to return the defective parts, you should follow the local government ordinance or regulations on how best to dispose it, or follow the rules set by your regional Acer office on how to return it.

NOTE: The number indicates the location shown on exploded diagram or “NS” indicates “Not shown” on it.






Veriton 5100 Exploded Diagram



Picture	No.	Partname	Description	Part No.	5100	7100
CPU						
	NS	CPU,COPPERMINE733 MHZ,133M,256K,FCPGA,SOCKET370,INTEL	IC CPU COP733/133/256 FCPGA B0	01.COPRM.73C	X	X
		CPU,COPPERMINE 667MHZ,133M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP667/133/256 FCPGA B0	01.COPRM.66C	X	X
		CPU,COPPERMINE 600MHZ,100M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP600/100/256 FCPGA B0	01.COPRM.60I	X	X
		CPU,CELERON 533MHZ ,66M,128K,FCPGA, SOCKET 370,INTEL	IC CPU CELER533A/128K/66M 0D	01.ICLON.53A	X	X
		CPU,CELERON 566MHZ ,66M,128K,FCPGA, SOCKET 370,INTEL	IC CPU CELER566/128K/66M 0D	01.ICLON.566	X	X
		CPU,CELERON 600MHZ ,66M,128K,FCPGA, SOCKET 370,INTEL	IC CPU CELER600/128K/66M 0D	01.ICLON.600	X	X
		CPU,COPPERMINE 933MHZ ,133M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COPP933/133/256 FCPGA	01.COPRM.933	X	X
		CPU,COPPERMINE 866MHZ,133M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COPP866/133/256/0D FCPG	01.COPRM.866	X	X
		CPU,COPPERMINE 800MHZ,133M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COPP800B/133/256/0D FCP	01.COPRM.800	X	X
		CPU,COPPERMINE 600MHZ,133M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP600/133/256 FCPGA B0	01.COPRM.60H	X	X
		CPU,COPPERMINE 800MHZ,100M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COPP800/100/256/0D FCPG	01.COPRM.80B	X	X
		CPU,COPPERMINE 750MHZ,100M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP750/100/256 FCPGA B0	01.COPRM.75G	X	X
		CPU,COPPERMINE 700MHZ,100M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP700/100256 FCPGA B0	01.COPRM.70G	X	X
		CPU,COPPERMINE 650MHZ,100M,256K,FCPGA,SOCKET 370,INTEL	IC CPU COP650/100/256 FCPGA B0	01.COPRM.65E	X	X

Picture	No.	Partname	Description	Part No.	5100	7100
	NS	FANSINK,3PIN,SOCKET 370	Fan Sink SKT370 3-pin AI	90.00028.632	X	
		FANSINK,2PIN,SOCKET 371	Fan Sink SKT370 2-pin	90.00028.641	X	
Memory						
	NS	MEMORY,SDIMM,128MB ,PC-133,INFINEON	SDIMM 128M 64V16220GU-7.5C (ACE)	72.64162.L05	X	X
		MEMORY,SDRAM,64MB, PC-100,INFINEON	SDRAM 64MB HYS64V8300GU-8-C(A)	72.64830.L03	X	X
		MEMORY,DIMM,128MB, PC-133,MICRON	DIMM 128M MT16LSDT1664AG-133C7	72.16664.L04	X	X
		MEMORY,SDIMM,128MB ,PC-100,MICRON	SDIMM 128M MT16LSDT1664AG-10EC	72.16164.L03	X	X
		MEMORY,DIMM,64MB,P C-133,MICRON	DIMM 64M MT8LSDT864AG133C 7	72.08864.L05	X	X
		MEMORY,SDIMM,32MB, PC-100,MICRON	SDIMM 32M MT4LSDT464AG-10EC5	72.04464.L04	X	X
Monitor						
	NS	15" (110V North Hemisphere)--AAC/ACLA		91.71602.301	X	X
		(Universal 220/110V North Hemisphere)--ACI/AEB/ACLA		91.71602.302	X	X
		(Universal 220/110V Equatorial Hemisphere)--ACI/ACLA		91.71602.303	X	X
		(Universal 220/110V South Hemisphere)--ACI		91.71602.304	X	X
		(Universal 110V North Hemisphere)--STK		91.71602.305	X	X
		17"--AAC/ACLA		91.70602.107	X	X
		17"--ACI/AEB		91.70602.108	X	X
		17"--AAC/ACLA		91.70602.109	X	X
		17"--ACI (N.Z. & Australia)		91.70602.110	X	X
		17"--STK Taiwan		91.70602.111	X	X
	17"(TCO)		91.70602.112	X	X	
FDD/Floppy Disk Drive						
	6, 2	FDD,1.44MB,3 MODE,PANASONIC/ JU-256A046P	FDD 1.44 JU-256A046P ACER V.S	56.01057.194	X	X

Picture	No.	Partname	Description	Part No.	5100	7100
HDD/Hard Disk Drive						
	NS	HDD, 30GB,IDE,QUANTUM/ 30.0AT LC30A	HDD 30G 4400 QTM/ 30.0AT LC30A	56.02B92.021	X	X
		HDD, 30GB,IDE,MAXTOR/ ATV33073H4	HDD 30G MX5400/ ATV33073H4 DE	56.02B93.031	X	
		HDD, 20.4GB,IDE,SEAGATE/ ST320423A	HDD 20.4GB SEAGATE/ST320423A	56.02B34.051	X	X
		HDD, 20GB,IDE,ATA2,SEAGAT E/ST320420A	HDD 20G ATA2 7200 SG/ST320420A	56.02B34.091	X	X
		HDD, 10.2GB,IDE,SEAGATE/ ST310212A	HDD 10.2GB SEAGATE/ST310212A	56.02A72.081	X	X
		HDD , 15.3GB,IDE,SEAGATE/ ST315323A	HDD 15.3GB SEAGATE/ST315323A	56.02B65.001	X	X
		HDD, 15GB,IDE,SEAGATE/ ST315320A	HDD 15G ATA2 7200 SG/ST315320A	56.02B65.021	X	X
		HDD , 7.5GB,IDE,QUANTUM/ 7.5AT LC07A	HDD 7.5G 4500 QTM/ 7.5AT LC07A	56.02A62.001	X	X
		HDD, 15GB,IDE,QUANTUM/ 15.0AT LC15A	HDD 15G 4400 QTM/ 15.0AT LC15A	56.02B64.021	X	X
		HDD, 20.4GB,IDE,QUANTUM/ 20.4ATLC20A	HDD 20.4GB 4400QUA/ 20.4ATLC20A	56.02B33.051	X	X
CD-ROM Drive						
	NS	CD-ROM , 48X,AOPENCD-948E	CD ROM CD-948E/ AKUF 48X	91.32D37.407	X	X
		CDROM,48X,IDE,API/ 650P-047	CD ROM 48X API/ 650P-047	56.10213.001	X	
CD-RW Drive						
	NS	CD-RW,8/4/32X,LG/CED- 8080B	CD-RW 8/4/32X LG/ CED-8080B IBE	56.1938H.031	X	
		CD-RW,8*4*32X,ISONY/ CRX140E	CD-RW 8*4*32X SONY/CRX140E	56.1938H.001	X	X
		CD-RW 8/4/32 SONY/ CRX140E-AC	CD-RW 8/4/32 SONY/ CRX140E-AC	56.1938H.011	X	X
		CD-RW 8/4/32X LG/CED- 8080B AC	CD-RW 8/4/32X LG/ CED-8080B AC	56.1938H.021	X	X
DVD-ROM Drive						
	NS	DVD ROM 8/40X HITACHI/GD-5000BVAC	DVD ROM 8/40 HIT/ GD-5000BVAC	56.2232G.012	X	X
		DVD ROM 8X/40X HITACHI/ GD-7000ACO	DVD 8X/40X HITACHI/ GD-7000ACO	56.2238H.011	X	X

Picture	No.	Partname	Description	Part No.	5100	7100
Cables						
	NS	IDE CABLE,40PIN,3C	C.A 40P 3CON 450MM IDE ID2M	50.00509.041	X	X
		IDE CABLE,40PIN,3C	C.A 40P 3C 250+100MM IDE H61	50.92207.001	X	X
		IDE CABLE,ULTRA66,40PIN, 3C	C.A 80P 2CON 210MM ULTRA 66	50.95704.001		X
		IDE CABLE,ATA66,40PIN,3C	C.A 40P 3C 150+300mmATA66 H20	50.91209.001	X	X
		IDE CABLE,40PIN,3C	C.A 40P 3C 150+300MM IDE H61	50.92207.031	X	X
	NS	FDD CABLE,34PIN,2C	C.A 34P 2C 450MM FDD H61	50.92205.021	X	X
		FDD CABLE,34PIN,2C	C.A 34P 2C 350MM FDD M19A/FU	50.54A08.001	X	X
	NS	CDROM AUDIO(Y) CABLE,4PIN,3C	W.A 4P 3C(Y)520MM AUDIO(COMAX	50.37702.051	X	X
		CDROM AUDIO CABLE,4PIN,2C	W.A 4P 2C AUDIO 520MM H61	50.37702.041	X	X
		AUDIO CABLE,6/5 PI	W.A 6/5P 380MM IRDA TIFA	50.39C05.001	X	X
	NS	INTRUSION ALERM CABLE MODULE	HOUSING DOOR ALARM SET AP8600	6K.30C01.001		X
		USB CABLE,10PIN	C.A USB/10P 260MM H61	50.92216.001	X	X
Main Board						
	NS	Main Board/S58M	S58M MB Solano ICH	55.38H01.001	X	X
Boards						
	NS	LAN BOARD,10/100 Mbps,3COM/3C905C- TXM	LAN CARD 3COM/ 3C905C-TXM	54.03091.021	X	X
		LAN BOARD,10/100 Mbps,ANI/ALN-325	LAN 8139B-F ANI/ ALN-325	54.03111.021	X	X
		LAN BOARD,10/100 Mbps,ANI/ALN-325	LAN 8139B-F ANI/ ALN-325	56.0735G.011	X	X

Picture	No.	Partname	Description	Part No.	5100	7100
	NS	VGA BOARD,32MB,ATI/RAGE 128 PRO	VGA ATI/RAGE 128 PRO 32MB S58M	54.02023.071	X	
		VGA BOARD,32MB SDR + TV Out + DVI,LEADTEK / WINFAST GEFORCE256	VGA WINFAST GEFORCE256 DVI S61	54.02023.061	X	X
		VGA BOARD,32MB ,LEADTEK / WINFAST 3D S325	VGA BD WINFAST 3D S325 S61	54.02023.051	X	X
	NS	USB/AUDIO DAUGHTER BOARD	S58M USB/AUDIO DAUGHTER BOARD	55.38H02.001	X	X
	NS	MODEM BOARD,56K,AMBIT/MRT62M154	MODEM 56K D/F AMBIT/MRT62M154	54.09011.281	X	X
		MODEM BOARD,56K ,ASKEY/1456VQH20E	MODEM D/F 56K ASKEY/1456VQH20E	54.09551.051	X	X
Power Supply						
	NS	POWER SUPPLY,145W,API/API-9502-072	SPS 145W API-9502-072 REV.A	56.04145.552	X	
		POWER SUPPLY,145W,DELTA/DPS-145PB-82A	SPS 145W DEL/DPS-145PB-82A R01	56.04145.1Q2	X	
		POWER SUPPLY,145W,HI-PWR/SI-X145M3	SPS 145W HI-PWR/SI-X145M3 V.B1	56.04145.4U1	X	
		POWER SUPPLY,200W,DELTA/DPS-200BP-95B	SPS 200W DELTA/DPS-200BP-95B	56.04200.1U1		X
		POWER SUPPLY,200W,HP/SI-X200M3	SPS 200W HP/SI-X200M3	56.04200.4X2		X
Case/Cover/Bracket assembly						
		I/O PORT BRACKET	ASSY PORT BRKT B2UL FGA H61	60.92206.111	X	X
	1	FRONT PANEL	MAIN COVER / VER H40	42.93416.011	X	
	NS	RIGHT PANEL	RIGHT COVER / VER H40	42.93417.011	X	

Picture	No.	Partname	Description	Part No.	5100	7100
	1-1	RIGHT PANEL	CVR R SECC T-.8 LX45	31.93302.001		X
	1-2	LEFT PANEL	CVR L SECCT-.8 H80	31.94701.001		X
	1-7	TOP COVER	TOP COVER D501 H80 (VERITON)	42.94701.011		X
	1-7	FRONT COVER	FRONT COVER D501 H80 (VERITON)	42.94705.011		X
	10	USB COVER	USB COVER / VER H40	42.93418.001	X	
	10	USB COVER	USB COVER D501 H80 (VERITON)	42.94708.011		X
	NS	ADD-ON PORT BRACKET	BKT PORT SECC H51	33.94600.001	X	
	1-4	LINK BAR	LINK BAR SGCC H40	34.93401.011	X	
	NS	POWER SWITCH CABLE,2PIN	W.A 2P/PWR SW 300MM H61 W/HOLD	50.92201.002	X	
	1-9	UPPER CASE	ASSY UP CASE 002 H40	60.93401.021	X	
		UPPER CASE	ASSY UPPER CASE H40	60.93401.001	X	

Picture	No.	Partname	Description	Part No.	5100	7100
	1-10	LOWER CASE	ASSY L CASE 002 H40	60.93402.021	X	
		LOWER CASE	ASSY L CASE H40	60.93402.004	X	
	1-6	LOWER CASE	ASSY L-CASE W/USB HOLE H80	60.94707.011		X
	1-11	FRONT BEZEL	F PNL / VER H40	41.93405.011	X	
	1-7	FRONT BEZEL	FRONT BZL D002 H80 (VERITON)	41.94701.011		X
	1-3	FDD FRAME	FRAME FDD 3.5" SECC T-.6 LX45	34.93302.002		X
	NS	EMPTY DRIVE COVER 5.25"	CVR EMPTY 525 CHA HIPS 002 H61	42.92221.011	X	
	NS	EMPTY DRIVE 5.25" COVER	CVR EMPTY 525 CHA ABS 002 H80	42.92221.041		X
	NS	LED CABLE ASSY	ASSY LED CABLE H40	60.93405.001	X	
	NS	LED HOLDER MODULE	ASSY HLD LX45	60.93305.002		X
	NS	Intrusion Alert Micro Switch Cable Module	ASSY MICRO SW CABLE H40	60.93407.011	X	
Screws						
	NS	SPS,Port Bracket, LINK BAR,Mainboard SCREW	SCRW MACH PAN W/ SPG#6-32*5/16	86.1B526.7R9	X	X
	NS	DVD/CDROM/CD-RW SCREW	SCRW PAN W/FLT SPG M3*6L NI	86.1H524.6R0	X	X
	NS	HDD SCREW	SCRW MACH BDG #6-32*3/16" NI	86.4A5A6.012	X	X
	1-3, 1-4	KEY LOCK SCREW	SCRW MACH FLAT M3*0.5P*8L NI	86.5A524.8R0	X	X
	NS	FDD SCREW	SCRW TAP HEX ZINC M3*.5*5	86.BA224.5R0	X	X
	NS	UPPER CASE SCREW	SCRW THUMB #6-32 NI	86.00934.A60	X	
Miscellaneous parts						
	NS	NAME PLATE	NAME PLT W/O COL10.25*20.75 PC	40.41306.011	X	X

Picture	No.	Partname	Description	Part No.	5100	7100
Keyboard						
	NS	KEYBOARD,104KEYS,US,PS/2,DARFON	KB US 104KEYS	99.P5181.041	X	X
		KEYBOARD,104KEYS,PS/2,US,DARFON	KB US 104 KEY API 6511-CX(62C)	91.62C07.041	X	X
		KEYBOARD,105KEYS,PS/2,SWISS,DARFON	KB 105KEYS SWISS/US	91.62C07.040	X	X
		KEYBOARD, 105KEYS ,PS/2,SPANISH,DARFON	KB 105KEYS SPANISH/US	91.62C07.042	X	X
		KEYBOARD 104KEYS THAILAND PS/2 DARFON	KB 104KEYS THAILAND	91.62C07.043	X	X
		KEYBOARD 104KEYS INTERNATIONAL/US PS/2 DARFON	KB 104KEYS INTERNATIONAL/US	91.62C07.046	X	X
		KEYBOARD 104KEYS CZECH/US PS/2 DARFON	KB 104KEYS CZECH/US	91.62C07.049	X	X
		KEYBOARD 104KEYS ARABIC/US PS/2 DARFON	KB 104KEYS ARABIC/US	91.62C07.04A	X	X
		KEYBOARD 105KEYS BELGIUM/US PS/2 DARFON	KB 105KEYS BELGIUM/US	91.62C07.04B	X	X
		KEYBOARD 104KEYS CHINESE/US PS/2 DARFON	KB 104KEYS CHINESE/US	91.62C07.04C	X	X
		KEYBOARD 105KEYS DANISH/US PS/2 DARFON	KB 105KEYS DANISH/US	91.62C07.04D	X	X
		KEYBOARD 105KEYS ITALIAN/US PS/2 DARFON	KB 105KEYS ITALIAN/US	91.62C07.04E	X	X
		KEYBOARD 105KEYS FRENCH/US PS/2 DARFON	KB 105KEYS FRENCH/US	91.62C07.04F	X	X
		KEYBOARD 105KEYS GERMAN/US PS/2 DARFON	KB 105KEYS GERMAN/US	91.62C07.04G	X	X
		KEYBOARD 104KEYS HEBREW/US PS/2 DARFON	KB 104KEYS HEBREW/US	91.62C07.04H	X	X
		KEYBOARD 104KEYS SLOVAKIAN/US PS/2 DARFON	KB 104KEYS SLOVAKIAN/US	91.62C07.04L	X	X
		KEYBOARD 105KEYS ICELAND/US PS/2 DARFON	KB 105KEYS ICELAND/US	91.62C07.04M	X	X
KEYBOARD 105KEYS NORWEGIAN PS/2 DARFON	KB 105KEYS NORWEGIAN	91.62C07.04N	X	X		
KEYBOARD 105KEYS HOLLAND PS/2 DARFON	KB 105KEYS HOLLAND	91.62C07.04O	X	X		

Picture	No.	Partname	Description	Part No.	5100	7100
		KEYBOARD 105KEYS PORTUGUESE PS/2 DAFON	KB 105KEYS PORTUGUESE	91.62C07.04P	X	X
		KEYBOARD 105KEYS TURKEY-F PS/2 DAFON	KB 105KEYS TURKEY-F 6512-CX4Q	91.62C07.04Q	X	X
		KEYBOARD 104KEYS RUSSIAN/US PS/2 DAFON	KB 104KEYS RUSSIAN/US	91.62C07.04R	X	X
		KEYBOARD 105KEYS SPANISH PS/2 DAFON	KB 105KEYS SPANISH	91.62C07.04S	X	X
		KEYBOARD 105KEYS TURKEY PS/2 DAFON	KB 105KEYS TURKEY 6512-CX4T	91.62C07.04T	X	X
		KEYBOARD 105KEYS UK PS/2 DAFON	KB 105KEYS UK 6512-CX4U	91.62C07.04U	X	X
		KEYBOARD 105KEYS CANDIAN/FRENCH PS/2 DAFON	KB 105KEYS CANDIAN/FRENCH	91.62C07.04V	X	X
		KEYBOARD 105KEYS SWEDEN PS/2 DAFON	KB 105KEYS SWEDEN 6512-CX4W	91.62C07.04W	X	X
		KEYBOARD 105KEYS HUNGARIA/US PS/2 DAFON	KB 105KEYS HUNGARIA/US	91.62C07.04X	X	X
		KEYBOARD 104KEYS GREEK/US PS/2 DAFON	KB 104KEYS GREEK/US 6511-CX4Y	91.62C07.04Y	X	X
Pointing device						
	NS	MOUSE ,USB,LOGITECH U48A	MOUSE LOGITECH U48A/D002 V75M	90.37C26.005	X	X
		MOUSE,PS/2,PRIMAX/MOSXK	MOUSE PS/2 3D PRIMAX/MOSXK	90.37C26.003	X	X
		MOUSE ,PS/2,LOGITECH /S42	MOUSE LOGITECH 2 BUTTON/S42	90.00026.915	X	X
		MOUSE,PS/2,LOGITECH/S48A	MOUSE WHEEL LOGITECH/S48A S61	90.35G26.001	X	X
		MOUSE,PS/2,PRIMAX/MUSXJ	MOUSE 2 BOTTON PRIMAX/MUSXJ	90.00026.067	X	X
Speaker						
	NS	SPEAKER,USB,CHARMING/V-1	SPK USB POWER CHARMING/V-1	90.38H12.001	X	X
		SPEAKER,USB,CHARMING/HIPS	SPK USB LOW COST CHARMING/HIPS	90.37C12.019	X	X
		SPEAKER,USB,CHARMING/KT-691YB	SPK USB PWR CHARM/KT-691YB	90.37C12.017	X	X

Model Definition and Configuration

Veriton 5100

The Veriton 5100 Model No. Define:

1. Trade Mark:



2. Brand Name: Acer
3. Description: Acer Veriton Series, PIII & Celeron Socket 370 Based PC System
4. Model No: VT5100
5. Product Name: Veriton 5100

Veriton 7100

The Veriton 7100 Model No. Define:

1. Trade Mark:



2. Brand Name: Acer
3. Description: Acer Veriton Series, PIII & Celeron Socket 370 Based PC System
4. Model No: VT7100
5. Product Name: Veriton 7100

Test Compatible Components

This computer's compatibility is tested and verified by Acer's internal testing department. All of its system functions are tested under MS DOS V6.22, Microsoft Windows 98 SE (EN/TW), Microsoft Windows 2000 Professional, Microsoft Win95/NT 4.0 Workstation, IBM OS/2 Warp 4.0, Novell Netware 4.12 & 5.1, and SCO UNIX/Red Hat Linux environment.

Refer to the following lists for components, adapter cards, and peripherals which have passed these tests. Regarding configuration, combination and test procedures, please refer to the Veriton 5100/7100 Compatibility Test Report released by the Acer Desktop System Testing Department.

MS DOS V6.22 Environment Test

Item	Specifications
Processor	Coppermine 500/66 MHz Coppermine 600/100 MHz Coppermine 667/133 MHz Coppermine 800/133 MHz
Memory	64 MB 128 MB 192 MB 256 MB
Cache	128 KB 256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20.4 GB API 650P
EIDE Channel 1 Slave	Maxtor 30 GB AOpen CD-948E
EIDE Channel 2 Master	API 640A-247 Quantum 20.4 GB
EIDE Channel 2 Slave	AOpen CD-940E Pro Seagate 10.2 GB
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C
LAN Adapter	Acer NIC-559 With AOL II ANI ALN-325 3COM 3C905C-TXM

Microsoft Windows 98SE (EN/TW) Environment Test

Item	Specifications
Processor	Coppermine 600/66 MHz Coppermine 700/100 MHz Coppermine 733/133 MHz Coppermine 866/133 MHz
Memory	64 MB 128 MB 192 MB 256 MB
Cache	128 KB 256 KB
Floppy Disk Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20.4 GB Quantum 15 GB API 650P
EIDE Channel 1 Slave	Maxtor 30 GB Quantum 10.2 GB AOpen CD-948E
EIDE Channel 2 Master	Quantum 20.4 GB Maxtor 10.2 GB API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro Seagate 10.2 GB
Mouse	Logitech Wheel Mouse S48A Primax Wheel USB
Keyboard	API 62C API USB
Monitor	Acer View 19" Acer View 77C
Sound/MPEG Adapter	Onboard AD1881 Diamond Monster Sound M80 PCI Card Creative Sound Blaster PCI 64
Video Adapter	Winfast 3D S325 32 MB PCI ATI 128 PRO Pro 16 MB PCI ATI 128 PRO Pro 32 MB PCI
LAN Adapter	Acer NIC-559A 3COM 3C905C-TXM ANI ALN-325 IBM Token Ring PCI
Fax/Modem Adapter	Ambit 56K HCF PCI Askey 56K HCF PCI CIS Rockwell HCF PCI Etech 56K Data/Fax/Voice Modem
Joystick/Game Pad	Microsoft SideWinder Precision Pro Microsoft SideWinder Force Feedback Pro Microsoft SideWinder Game Pad Primax RAPTOR 3D USB Gamestick

Item	Specifications
USB Devices	HP Desk Jet 895C USB Printer Logitech Pagescan USB Acer Digital Video Camera Primax USB Joystick Microsoft USB Joystick AcerScan Prisa 310U USB Altec Lansing Speaker Intel USB Digital Video Camera
Printer	HP Desk Jet 695C Epson Stylus Color 440 Canon BJC-4130 SP Brother HL-660 6PPM Laser Printer

Microsoft Windows 2000 Professional Environment Test

Item	Specifications
Processor	Coppermine 600/133 MHz Coppermine 650/100 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C
Sound Adapter	Onboard AD1881
Video Adapter	ATI Rage 128 PRO 32MB PCI Acer TNT2 AGP 4X 16MB PCI
LAN Adapter	3COM 3C905C-TXM ANI ALN-325 Acer NIC-559A

Microsoft Win95/NT 4.0 Workstation Environment Test

Item	Specifications
Processor	Coppermine 500/100 MHz Coppermine 866/133 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic Ju-256A
EIDE Channel 1 Master	Seagate 20 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C

IBM OS/2 Warp 4.0 Environment Test

Item	Specifications
Processor	Coppermine 600/100 MHz
Memory	256 MB
Cache	256 K
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 20.4 GB
EIDE Channel 2 Master	API 640A-247
Mouse	Logitech Wheel Mouse S48A
Keyboard	API 62C
Monitor	Acer View 19"

Novell Netware 4.12 & 5.1 Environment Test

Item	Specifications
Processor	Coppermine 500/66 MHz Coppermine 600/100 MHz Coppermine 800/133 MHz Coppermine 866/2133 MHz
Memory	64 MB 96 MB 128 MB 256 MB
Cache	128 KB 256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer Vew 77C
LAN Adapter 1	3COM 3C905C-TXM Acer NIC-559A ANI ALN-325
LAN Adapter 2	3COM 3C339 3COM 3C905C-TXM D-Link DFE-500TX IBM Token Ring PCI
LAN Adapter 3	ANI ALN-325 IBM Token Ring PCI 3COM 3C339 3C905C-TXM
SCSI Adapter	AHA-2940UW AHA-3940UW AHA-3940AUW
SCSI HDD	Seagate 8 GB IBM 4 GB Quantum 2 GB

SCO UNIX/Red Hat Linux Environment Test

Item	Specifications
Processor	Coppermine 500/100 MHz Coppermine 866/133 MHz
Memory	64 MB 256 MB
Cache	256 KB
Diskette Drive	Panasonic JU-256A
EIDE Channel 1 Master	Seagate 30 GB
EIDE Channel 1 Slave	Quantum 20.4 GB
EIDE Channel 2 Master	API 640A-247
EIDE Channel 2 Slave	AOpen CD-940E Pro
Mouse	Logitech Wheel Mouse S48A Primax Wheel Mouse MOSXK
Keyboard	API 62C API 32TW
Monitor	Acer View 19" Acer View 77C

Online Support Information

This appendix describes online technical support services available to help you repair your Acer Systems.

If you are a distributor, dealer, ASP or TPM, please refer your technical queries to your local Acer branch office. Acer Branch Offices, Regional Offices and Regional Group may access our website. However, some information sources will require a user I.D. and password. These can be obtained directly from Acer CSD Taiwan.

Acer's Website offers you convenient and valuable support resources whenever you need them.

You can get the information on all of Acer's Notebook, Desktop and Server models including;

- Service guides for all models
- User's manuals
- Training materials
- BIOS updates
- Software utilities

Also contained on this website are:

- Detailed information on Acer's International Traveler's Warranty (ITW)
- An overview of all the support services we offer, accompanied by a list of telephone, fax and e-mail contacts for all your technical queries.

Here is the Acer headquarters' Customer Service Division Internet address for your support information:

<http://csd.acer.com.tw>

If you have any suggestions or comments, please do not hesitate to communicate these to:

GCSDirect@acer.com.tw, or fax to (886) 2 86911799.

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