Aspire L3600 VeritonL460 Service Guide

Service guide files and updates are available on the AIPG/CSD web; for more information please refer to <u>http://csd.acer.com.tw</u>

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Revision History

Please refer to the table below for the updates made on Aspire L3600 VeritonL460 service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN	Denotes actual messages that appear on screen.		
MESSAGES			
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	Remind 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

Features

Operating System

□ Microsoft Windows Vista (Home Basic, Home Premium,

Business)

Processor

- □ Socket Type: Intel® Socket T LGA 775 pin
- □ Processor Type:
- D Pentium 4 / Pentium D / Pentium Dual Core / Core 2 Duo /

Wolfdale CPUs

Chipset

- D North Bridge: Intel G31
- □ South Bridge: ICH7DH

PCB

- □ Form Factor: Micro ATX
- Dimension/Layer: 234 x172mm

Memory

- □ Memory Type: DDRII 667/800
- □ Support dual channel DDRII with maximum memory size up to

2GB

- DIMM Slot: 2
- □ Memory Max: 256MB, 512MB, 1GB DDRII 667/800 SDRAM

module.

□ Capacity: Up to 256MB per DIMM with maximum memory size

up to 2 GB

Video

 $\ \ \, \square \quad D\text{-sub output}$

- □ Support from Intel G31
- □ DVI-D output
 - □ Transmitter: Chrontel CH7307C
- □ Support dual view on D-sub+ DVI

Mini PCI Slots

- □ Slot Type: 3A
- □ PCI Slot Quantity: 1
- □ One mini-PCI slot with type 3A supported. Reserve pins for

Hybrid TV tuner card.

Pin#	Name	Description	
21	SY_IN1	S-Video Y Signal Input	
22	SC_IN1	S-Video C Signal Input	
93	CVBS_IN1	Composite Video Input	
112	AR_IN1	Stereo Audio Right Channel Input	
121	AL_IN1	Stereo Audio Left Channel Input	
98	AR_OUT1	Audio Right Channel Output	
100	AL_OUT1	Audio Left Channel Output	

- $\hfill\square$ One mini-card slot is reserved for wireless LAN card.
- □ Mini-Card Slot Quantity: 1

IDE/SATA

- □ Slot Quantity: 1
- □ Transfer rate support:
 - □ PIO Mode: 0/1/2/3/4
 - □ ATA mode: 33/66/100
- \Box Device Type support:
 - □ Combo/DVD Dual/DVD supermulti
- □ Connector Type: SATA IDE connector
- □ Connector Quantity: 2
- □ Storage Type support:
 - \square HDD

Audio

□ Please refer to 6.9 Acer Audio spec

- □ Codec: Realtek ALC888S
- \Box Connectors support:
 - \Box 6 audio in/out put port with auto-detected channel on rear.
 - □ Headphone and microphone on front panel.
 - □ SPDIF
- □ MB header support:
 - $\hfill\square$ 1 2*5 pin Intel FPIO header
- □ Design Criteria:
- D Meet Microsoft Vista Premium requirement

LAN

- □ LAN Control: Intel 82573L GbE LAN controller
- □ Support WOL from S5

USB

□ Controller: ICH7-DH

- □ Connectors Quantity: 8
 - \Box Rear connectors: 4
 - □ On-board header: 2 (4 USB ports)
 - 2 2*5 Pin Intel FPIO header for front panel USB ports
- □ Data transfer rate support:
- □ USB 2.0/1.1

1394

□ TI TSB43AB23PDTG4 is required.

BIOS

- □ SST 49LF004B FWH
- □ 4Mbit symmetrical Flash

Front I/O port

- □ VeritonL460
 - □ 4 USB ports
 - 1 headphone out (follow HD audio spec, meet Vista Premium

criteria)

□ 1 microphone in (follow HD audio spec, meet Vista Premium

criteria)

- □ Aspire L3600
 - □ 2 USB Port
 - □ 1 headphone out (follow HD audio spec, meet Vista Premium

criteria)

□ 1 microphone in (follow HD audio spec, meet Vista Premium

criteria)

- □ 14-pin 1394 Port
- □ 1 4-1 card reader port (MS/MS Pro/MMC/SD/XD)

Rear I/O connectors

- □ Veriton L460
 - □ 1 GigaLAN port

- □ 4 USB Ports
- \Box 1 D-sub + DVI monitor port
- □ 6 Audio Jack port (follow HD audio spec, meet Vista

Premium criteria)

- □ Aspire L3600
 - □ 1 GigaLAN port
 - □ 4 USB Ports
 - \Box 1 D-sub + DVI monitor port
 - □ 6 Audio Jack port (follow HD audio spec, meet Vista

Premium criteria)

- □ 1 1394 port 6 pin
- \Box 1 SPDIF
- $\hfill\square$ 2 Antenna input for cable and FM
- $\hfill\square$ 1 8 pin mini-dip AV in

On-board connectors

- □ Processor Support
 - □ Socket 775
 - □ Intel Celeron / Pentium Dual Core / Core 2 Duo / Yorkfield /

Wolfdale CPUs

- □ FSB 533/800/1066/1333 (TBD)MHz CPUs
- □ Intel 2006 FMB (65W)
- □ Chipset
 - \Box North bridge: Intel G31
 - □ South bridge: Intel ICH7-DH
- □ I/O Expansion Slots
 - □ One mini-PCI slot with type 3A supported. Reserve pins for

Hybrid TV tuner card.

 $\hfill\square$ One mini-card slot is reserved for wireless LAN card.

□ Memory

- □ Two DDRII so-DIMM sockets
- □ 512MB, 1GB, DDRII 667/800 SDRAM module
- □ Support dual channel DDRII memory bus
- $\hfill\square$ Onboard Devices
 - \Box VGA graphics

 \square Support integrated graphic display

 \square Display output should support DVI and D-sub output.

□ Networking

□ Intel 82573L (Vidalia) GbE LAN solution

 \square Port with Activity and Link indicators

□ Meet Intel Viiv technology requirement.

 \Box Audio system

 \square Realtek ALC888S codec.

□ Compliance with HD audio and support UAA interface.

□ Stereo channel HD audio output in rear panel.

□ Audio solution should meet Vista Premium

requirement.

□ SPDIF coaxial output (Aspire L3600)

□ 2*5 pin Intel FPIO spec. Microphone In/ Headphone

Out pin connectors for front panel audio adapter.

 \Box USB

□ Two (2) USB ports. (Aspire L3600)

□ Four (4) USB ports on front panel. (Veriton L460)

□ Four (4) USB ports on rear panel

□ All ports should comply with USBSIG USB 1.1 and 2.0

spec

□ IEEE-1394a (Aspire L3600)

□ TI TSB43AB23PDTG4 is required.

□ Super I/O controller support including:

□ ITE 8718 is recommended.

 \square Controllable of fan speed on boot-up.

 $\hfill\square$ On-board storage

 \square Two (2) ports serial-ATA available on board.

 \Box One (1) port PATA available on board.

 \Box Others

- □ Front panel I/O connector
- □ Clear CMOS Connector (3-pin)

- □ Plug and Play support
- □ APM 1.2 support
- □ Advanced Configuration and Power Interface (ACPI 2.0c or

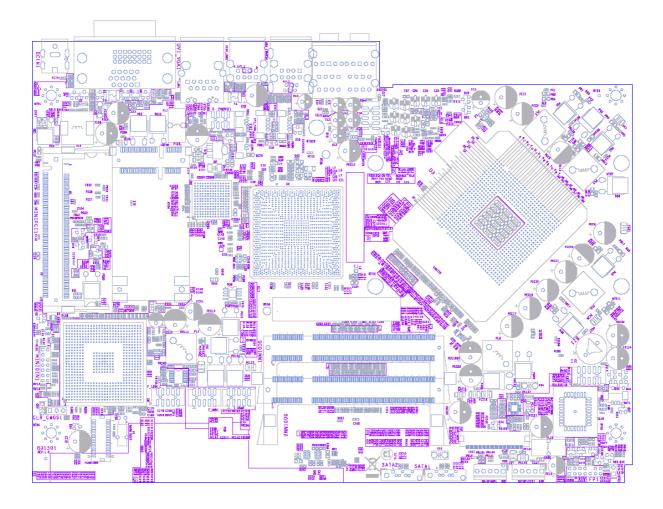
greater) support including the S1, S3, S4 and S5 states.

□ One GPIO pin for Acer One Button Recovery function.

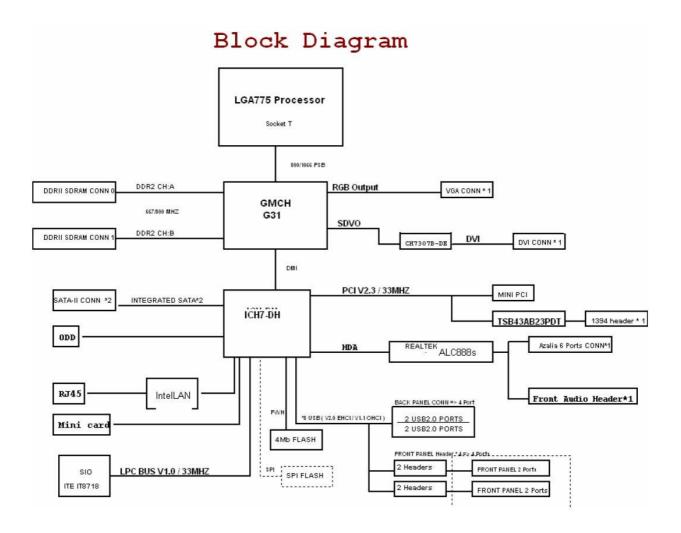
ACAdapter

- □ Universal AC adapter, 90~264V AC, 47~63HZ
- □ 3-pin 135W with 19V DC output

Main board Placement

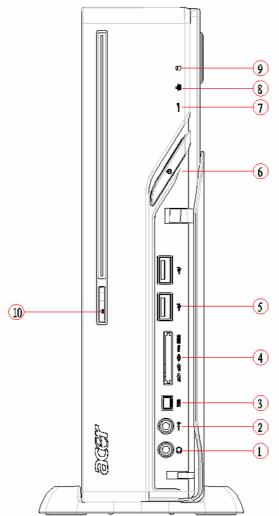


Block Diagram



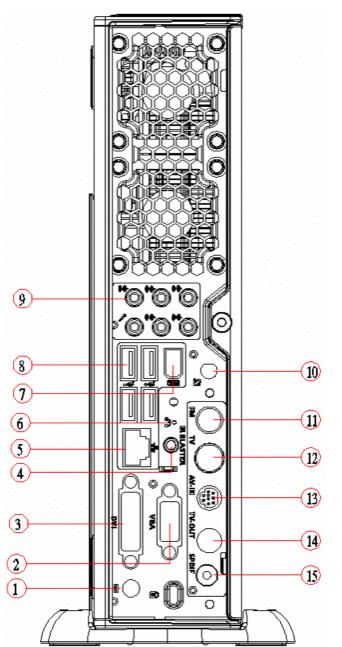
Aspire L3600 Front Panel

The computer's front panel consists of the following:



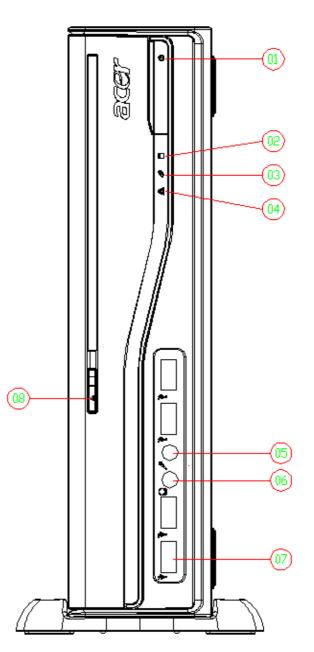
Label	Description		
1	SPEAKER OUT		
2	MIC PHONE		
3	1394 PORTS		
4	CARD-READER port		
5	USB PORTS		
6	POWER BUTTON		
7	IR LED		
8	LAN LED		
9	HDD LED		
10	ODD BUTTON		

Aspire L3600 Rear Panel



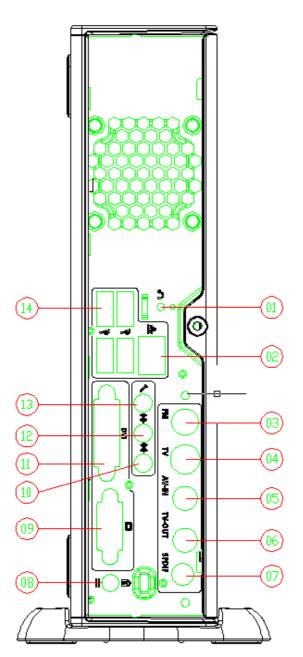
Label	Description	Label	Description
1	DC jack	9	6audio jacks
2	VGA	10	ANTENNA Port
3	DVII port	11	FM Port
4	IR-Blaster	12	TV Port
5	LAN PORT	13	AV IN
6	OBR	14	TV OUT
7	1394 Port	15	Spdif Port
8	USB PORTS		

VeritonL460 Front Panel



Label	Description	
1	POWER BUTTON	
2	HDD LED	
3	HDD LED	
4	ODD LED	
5	SPEAKER OUT	
6	MIC PHONE	
7	USB PORTS	
8	ODD BUTTON	

VeritonL460 Rear Panel



Label	Description	Label	Description
1	OBR	8	DC jack
2	LAN PORT	9	VGA
3	FM Port	10	LINE OUT
4	TV Port		DVII port
5	AV IN	12	LINE IN
6	TV OUT	13	MIC
7	Spdif Port	14	USB PORTS

Hardware Specifications and Configurations

Processor

Item	Specification	
Туре	Pentium 4 / Pentium D / Pentium Dual Core / Core	
	2 Duo / Wolfdale CPUs	
Socket	LGA 775 pin	
FSB	FSB 800/1066 MHz CPUs	
Minimum operating	o MHz (If Stop CPU Clock in Sleep State in BIOS	
speed	Setup is set to Enabled.)	

BIOS

Item	Specification
BIOS code programmer	The SST 49LF004B Firmware Hub (FWH)
	or supported alternative FWH will be
	implemented on the Beagle motherboard.
BIOS version	V2.4
BIOS ROM type	Symmetrical Flash
BIOS ROM size	4Mb
Device Boot Support	- 1st priority: SATA HDD
	- 2nd priority: CD-ROM
	- 3rd priority: LAN
	- 4th priority: USB device
Support to LS-120 drive	YES
Support to BIOS boot block	YES
feature	

BIOS Hotkey List

Hotkey	Function	Description
Del	Enter BIOS Setup Utility	Press while the system is booting to
		enter BIOS Setup Utility.

Main Board Major Chips

Item	Specification
North Bridge	Intel G31
South Bridge	ICH7DH
APG controller	Integrated
Super I/O controller	IT8718F
Audio controller	Realtek / ALC888S-GR
LAN controller	Intel 82573L
HDD controller	ICH7DH

Memory Combinations

Slot	Memory	Total Memory
Slot 1	512MB, 1GB	512MB~2GB
Slot 2	512MB, 1GB	512MB~2GB
Maximum System Memory Supported		512MB~2GB

System Memory

Item	Specification
Memory slot number	2 slot
Support Memory size per socket	512MB/1GB
Support memory type	DDRII
Support memory interface	DDRII 667/800 SDRAM module
Support to parity check feature	Yes
Support to error correction code	No
(ECC) feature	
Memory module combinations	You can install memory modules in any
	combination as long as they match the
	above specifications.

Audio Interface

Item	Specification
Audio controller	ICH7DH
Audio controller type	Realtek ALC888S
Audio channel	codec 7.1
Audio function control	Enable/disable by BIOS Setup
Mono or stereo	Stereo
Compatibility	Sound Blaster Pro/16 compatible
	Mixed digital and analog high
	performance chip Enhanced stereo
	full duplex operation High
	performance audio accelerator and
	AC'97 support Full native DOS
	games compatibility Virtual FM
	enhances audio experience through
	real-time FM-to-Wavetable
	conversionMPU-401 (UART mode)
	interface for Wavetable synthesizers
	and MIDI devices Integrated dual
	game port Meets AC'97and WHQL
	specifications
Music synthesizer	Yes, internal FM synthesizer
Sampling rate	48 KHz (max.)
MPU-401 UART support	Yes
Microphone jack	Supported
Headphone jack	Supported

SATA Interface

Item	Specification
SATA controller	Super I/O ITE 8718
SATA controller resident bus	PCI bus
Number of SATA channel	SATA X 1
Support bootable CD-ROM	YES

USB Port

Item	Specification
Universal HCI	USB 2.0/1.1
	Support legacy keyboard for legacy mode
USB Connectors Quantity	Rear connectors: 4 On-board header: 2 (4 USB ports)

Environmental Requirements

Item	Specification	
Temperature		
Operating	$+5^{\circ}C \sim +35^{\circ}C$	
Non-operating	-20 ~ +60°C (Storage package)	
Humidity		
Operating	15% to 80% RH	
Non-operating	10% to 90% RH	
Vibration		
Operating (unpacked)	5 ~ 500 Hz: 2.20g RMS random, 10 minutes per axis	
	in all 3 axes	
	5 ~500 Hz: 1.09g RMS random, 1 hour per axis in all 3	
	axes	

ACAdapter

- Universal AC adapter, 90~264V AC, 47~63HZ
- 3-pin 135W with 19V DC output

Power Management Function (ACPI support function)

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 method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Resume recovery time: 7-10 sec.

Suspend Mode

- Independent power management timer (2-120 minutes, time step=10 minutes) or pushing externa switch button.
- CPU goes into SMM.
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on the panel turns amber colour.
- Hard disk drive goes into SLEEP mode (for ATA standard interface).
- Disable H-sync and V-sync signals to control the VESA DPMS monitor.
- Ultra I/O and VGA chip go into power saving mode.
- Resume method: Return to original state by pushing external switch button, modem ring in, keyboard and mouse for APM mode.
- Return to original state by pushing external switch button, modem ring in and USB keyboard for ACPI mode.

ACPI

- ACPI specification 1.0b.
- S0, S1, S3 and S5 sleep state support.
- On board device power management support.
- On board device configuration support.

System Utilities

The manufacturer or the dealer already configures most systems. 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/flat. In this case, the system cannot retain configuration values in CMOS.

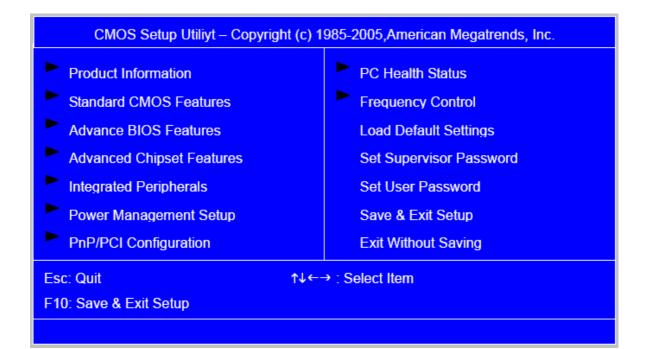
Before you run Setup, make sure that you have saved all open files. The system reboots immediately after you exit Setup.

Entering Setup

Power on the computer and the system will start POST (Power On Self Test) process. When the message of "Press DEL to enter SETUP" appears on the screen, press the key of [Delete] to enter the setup menu.

NOTE: If the message disappears before you respond and you still wish to enter Setup, restart the system by turning it OFF and On. You may also restart the system by simultaneously pressing [Ctrl+ Alt+ Delete].

The Setup Utility main menu then appears:



The items in the main menu are explained below:

Parameter	Description
Production	This page shows the relevant information of the main board
Information	
Standard CMOS	This setup page includes all the items in standard compatible
Features	BIOS
Advance BIOS	This setup page includes all the items of Award special enhanced
Features	features
Advance Chipset	This setup page includes all advanced chipset features
Features	
Integrated	This setup page includes all onboard peripherals
Peripherals	
Power Management	This setup page includes all the items of Green function features
Setup	
PnP/PCI	This setup page includes all configurations of PCI & PnP ISA
Configuration	resources
PC Health Status	This setup page is the System auto detect Temperature, voltage,
	and fan speed
Load Optimized	Load Optimized Settings Default Settings indicates the value of
Defaults	the system parameters which the system would be in best
	performance configuration
Set Supervisor	Change, set or disable password. It allows you to limit access to
Password	the system and Setup, or just to Setup
Set User Password	Change, set or disable password. It allows you to limit access to
	the System
Save & Exit Setup	Save CMOS value settings to CMOS and exit setup
Exit Without Saving	Abandon all CMOS value changes and exit setup

Product Information

The screen below appears if you select Product Information from the main menu: The Product Information menu contains general data about the system, such as the product name, serial number, BIOS version, etc. This information is necessary for troubleshooting (maybe required when asking for technical support).

Product Name	Veriton L460	Item Help
Main Board ID	G31GZ	Manufaurt
System S/N	00000000	Menu Level 🕨
System Manufacture Name	Acer	
Main Board Manufacture Name	Acer	
System BIOS Version	v6.00	
SMBIOS Version	2.4	
System BIOS ID	775A1D03	
BIOS Release Date	07/20/2007	

The following table describes the parameters found in this menu:

Parameter	Description
Production Name	This item lists the product name
System S/N	This item lists the system serial number
Main Board ID	This item lists the main board ID
Main Board S/N	This item lists the main board serial number
System BIOS Version	This item lists the system BIOS version
SMBIOS Version	This item lists the system SMBIOS version
System BIOS ID	This item lists the system BIOS ID
BIOS Release Date	This item lists the BIOS release date

Standard CMOS Setup

Select standard CMOS features from the main menu to configure some basic parameters in your system the following screen shows the standard CMOS features menu:

Day- Date (MM:DD:YY)	Sun 07/22/2007	Item Help
System Time	11:54:33	
Base Memory Size	512MB	
Extended Memory Size	1015MB	Menu Level 🕨
Total Memory Size	1015MB	
IDE Channel 0 Maser	[None]	Change the day, month, year and the
IDE Channel 0 Slave	[None]	century
IDE Channel 1 Master	[None]	
IDE Channel 1 Slave	[SATA:PM-WDC WD2000]	
IDE Channel 2 Slave	[Network:IBA GE Slo]	
IDE Channel 3 Slave	[None]	
IDE Channel 4 Slave	[None]	
IDE Channel 5 Slave	[None]	
Video Setting	[EGA/VGA]	
Halt on Setting	[All, But Keyboard]	

IDE HDD Auto Detection	[Press Enter]	Item Help
IDE Channel x Master/Slave	[Auto]	Menu Level 🕨
Access Mode	[Auto]	
Capacity	SATA:PM-WDCWD2000	Change the day, month, year and th
Cylinder	XXXXX	century
Head	XXXXX	
Precomp	XXXX	
Landing zone	XXXX	
Sector	XXXXX	

The following table describes the parameters found in this menu.

Parameter	Description	Options
Date	To set the date following the	Week: From [Sun.] to
	weekday-month-date-year format	[Sat.]. determined by
		BIOS and is display
		only
		Day: from [1] to [31] (or the
		maximum allowed in
		the month.
		Year: from 1999 to 2099
System Time	To set the time following the	The items format is [hour]
	hour-minute-second format	[minute][second]. The time
		is calculated base on the
		24-hour timer clock.
Base Memory Size	512MB for system base memory	

Parameter	Description	Options
Extended	The BIOS determines	
Memory Size	how much extended	
	memory is present during	
	the POST. This is the	
	amount of memory	
	located above 1MB in the	
	memory address map of	
	CPU	
Total Memory	Total memory size for the	
Size	system	
IDE Channel	Hard disk drive	[Enter] for detection options
X Master	connected to channel X	[Auto]: BIOS automatically detects IDE
IDE Channel	master or slave port. To	devices during POST (default)
X Slave	enter the IDE Master or	[None]: No IDE devices are used and the
	Slave setup, press	system will skip the automatic
	[Enter]. The IDE	detection step and allow for faster
	CD-ROM is always	system start up
	automatically detected	[Manual]: Manually input the correct
		settings
		[Access Mode]: To set the access mode for
		the hard drive.
		The four options are:
		CHS/LBA/Large/Auto (default: Auto)
		Cylinder: Number of cylinders
		Head: Number of heads
		Precomp: Write precomp
		Landing Zone: Landing Zone
		Sector: Number of sectors
Video Setting	Select the type of primary	
	video subsystem	
Halt on	This item enables use to	All Errors
	select the situation if the	No Errors
	BIOS stops the POST	All, But Keyboard
	process and the	All, But Diskette
	notification	All, But Disk/Key

Advanced Setup

The following screen shows the Advanced Setup:

Hard Disk Boot Priority	[Press Enter]	Item Help
Virus Warning	[Disabled]	
Quick Power on Self Test	[Enabled]	Menu Level 🕨
Silent Boot	[Enabled]	
Second Boot Device	[Hard Disk]	Allows you to choose the Virus warning
Third Boot Device	[CDROM]	feature for IDE Hard Disk boot sector
Boot From Other Device	[Enabled]	protection. If this function is enabled
Boot Up Numlock Status	[Enabled]	and someone attempt to write data in
Security Option	[Setup]	this area, BIOS will show a warning
APIC Mode	[Enabled]	message on screen and alarm beep
HDD S.M.A.R.T. Capability	[Disabled]	

Parameter	Description	Options
Hard Disk Boot	This features displays the Hard Disk Boot	[Press Enter]
Priority	Device priority from high to low and allows	
	users to set the Hard Disk Boot Device	
	Priority. Press [Enter] to enter the setting	
	screen. Use wory to select a device, then	
	press <+> to move it up, or <-> to move it	
	down the list. Press <esc> to exit.</esc>	

Parameter	Description	Options
Virus Warning	This feature allows you to enable the VIRUS	[Enabled], [Disabled]
	warning function for IDE Hard Disk boot sector	
	protection. If this function is enabled and there	
	is someone attempts to write data to this area,	
	BIOS will show a warning message on screen	
	and the alarm will beep.	
Quick Power	This feature allows the system to skip certain	[Enabled], [Disabled]
On Self Test	tests while booting. When this function is	
	enabled, it will decrease the time needed to boot	
	the system, which means to quick power on	
	self-test function.	
Silent Boot	This feature allows you to enable or disable if the	[Enabled], [Disabled]
	screen logo to display or not during POST	
First/Second/	The item allows you to see the sequence of boot	[Floppy], [LS120],
Third Boot	device where BIOS attempts to load the disk	[Hard Disk],
Device	operation system.	[CD-ROM], [ZIP],
		[USB-FDD],
		[USB-ZIP],
		[USB-CDROM],
		[USB-HDD], [LAN],
		[Disabled]
Boot From	This item allows user to enable or disable to boot	[Enabled], [Disabled]
Other Devices	from other device	
Boot Up	This item allows user to enable or disable to set	[Enabled], [Disabled]
NumLock	keyboard is number keys or arrow keys	
Status		
Security	This category allows you to limit access to the	[System], [Setup]
Option	system and Setup, or just to Setup.	
APIC Mode	This option is used to set up enable or disable	[Enabled], [Disabled]
	the APCI function	
HDD	S.M.A.R.T. which allows your hard disk to report	[Enabled], [Disabled]
S.M.A.R.T	any read/write errors and issue a warning when	
Capability	LDCM installed	

Dual Monitor Support	[Disabled]	Item Help
Frame Buffer Size	[64MB]	
CPU Frequency	[200.0]	Menu Level >
Spread Spectrum	[Enabled]	
HT Spread Spectrum	[Disabled]	
SSE/SSE2 Instructions	[Enabled]	

Advanced Chipset Setup

Parameter	Description	Options
Dual Monitor	This category allows you to enable or	[Enabled], [Disabled]
Support	disable dual monitor support function	
Frame Buffer Size	This field displays how much frame	
	buffer size of the system.	
CPU Frequency	This field allows you to determine	
	CPU frequency of the system.	

Parameter	Description	Options
Spread	When the system clock generator pulses,	[Enabled], [Disabled]
Spectrum	the extreme values of the pulse generate	
	excess EMI. Enabling pulse spectrum	
	spread modulation changes the extreme	
	values from spikes to flat curves, thus	
	reducing EMI. This benefit may in some	
	case be outweighed by problems with	
	timing-critical devices, such as a	
	clock-sensitive SCSI device.	
HT Spread	Enables or Disables HT Spread Spectrum.	[Enabled], [Disabled]
Spectrum	HT is Hyper Transport between CPU and	
	North Bridge.	
SSE/SSE2	This feature controls the availability of the	[Enabled], [Disabled]
Instructions	processor's SSE and SSE2 instruction sets.	
	When enabled, the processor's SSE and	
	SSE2 instruction sets are enabled. Software	
	applications can make use of those	
	instructions to better process large	
	amounts of data quickly.	
	When disabled, the processor's SSE and	
	SSE2 instruction sets are disabled.	
	Software applications will not be able to use	
	those instructions to process multiple data	
	elements simultaneously. However, the	
	processor's MMX instruction set will still	
	be available for use. It is highly	
	recommended that you leave this BIOS	
	feature at the default setting.	

Integrated Peripherals

CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc. Integrated Peripherals			
IDE Function Setup	[Press Enter]	Item Help	
Onboard Device Setup	[Press Enter]	Menu Level 🕨	
Onboard I/O Chip Setup	[Press Enter]		
↑↓←→: Move ENTER: Select	t Item +/-/PU/PD: Value	F10: Save ESC: Exit F1: General Help	
F5: Previous	Values	F7: Optimized Defaults	

Parameter	Description	Options
IDE Function Setup	This page allows you to setup IDE	[Press Enter]
	function	
Onboard Device	This page allows you to setup	[Press Enter]
Setup	onboard devices.	
Onboard I/O Chip	This page allows you to setup	[Press Enter]
Setup	onboard I/O chip.	

Integrated Peripherals-IDE Function

Setup

CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc. IDE Function Setup			
OnChip IDE Channel	0	[Enabled]	Item Help
Primary Master	PIO	[Auto]	
Primary Slave	PIO	[Auto]	
Primary Master	UDMA	[Auto]	Menu Level 🕨
Primary Slave	UDMA	[Auto]	
OnChip IDE Channel	1	[Enabled]	
Primary Master	PIO	[Auto]	
Primary Slave	PIO	[Auto]	
Primary Master	UDMA	[Auto]	
Primary Slave	UDMA	[Auto]	
IDE DMA Transfer Ac	cess	[Enabled]	
SATA 1		[Enabled]	
SATA 2		[Enabled]	
IDE Prefetch Mode		[Enabled]	
IDE HDD Block Mode	;	[Enabled]	
SATA Port Speed Settings		[Auto]	
↑↓←→: Move ENTER:	Select It	em +/-/PU/PD: Value F10): Save ESC: Exit F1: General Help
F5: Previous Values F7: Optimized Defaults			Optimized Defaults

Parameter	Description	Options
IDE	The four IDE PIO fields let you set a PIO mode (0-4)	
Primary/Second	for each of the four IDE devices that the onboard IDE	
ary	interface supports. Modes 0 through 4 provide	
Master/Slave	increased performance. In Auto mode, the system	
PIO	automatically determines the best mode for each	
	device.	
On-Chip IDE	The Chipset contains a PCI IDE interface with support	[Enabled],
First/Second	for two IDE channels. Select Enabled to activate the	[Disabled]
Channel	first and/or second IDE interface. Select Disabled to	
	deactivate an interface, if you install a primary and/or	
	secondary add-in IDE interface.	
IDE	UDMA (Ultra DMA) is a DMA data transfer protocol	
Primary/Second	that utilized ATA transfer protocol that utilizes ATA	
ary	commands and the ATA bus to allow DMA commands	
Master/Slave	to transfer data ata maximum burst rate of 33 MB/s.	
UDMA	When you select Auto in the four IDE UDMA fields (for	
	each of up to four IDE devices that the internal PCI IDE	
	interface supports), the system automatically	
	determines the optimal data transfer rate for each IDE	
	device.	
IDE DMA	This category allows you to enable or disable DMA	[Enabled],
Transfer Access	transfer access of IDE device (or IDE HDD)	[Disabled]
SATA 1/2	Enable/Disable Serial-ATA 1 or Serial-ATA-2. SATA 1	
	control port 1 and 3, SATA 2 control port 2 and 4.	
IDE Prefetch	The onboard IDE drive interfaces supports IDE	
Mode	prefetching, for faster drive accesses. If you install a	
	primary and/or secondary add-in IDE interface, set this	
	field to Disabled if the interface does not support	
	prefetching.	

Parameter	Description	Options
IDE HDD Block Mode	Block mode is also called block transfer, multiple commands, or multiple sectors read/write. If your IDE hard drive supports block mode(most new drives do), select Enabled for automatic detection of the optimal number of block read/write per sector the drive can support.	[Enabled], [Disabled]
SATA PORT Speed Settings	This category allows you to determine the speed of SATA port.	[Auto],

Integrated Peripherals-Onboard Device

Setup

CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc. Onboard Device Setup			
OnChip USB	[V1.1+V2.0]	Item Help	
USB Memory Type	[SHADOW]	Menu Level >	
USB KB Legacy Support	[Enabled]		
USB Mouse Legacy Support	[Enabled]		
AC97 Audio	[Auto]		
MAC Lan	[Auto]		
MAC Lan Boot ROM	[Disabled]		
N↓←→: Move ENTER: Select If F5: Previous V		F10: Save ESC: Exit F1: General Help F7: Optimized Defaults	

Parameter	Description	Options
On Chip USB	This field allows you to determine on	[V1.1+V2.0], [V1.1]
	chip USB type or disable on chip USB.	
UDB Memory Type	Use this item to change the type of	[Shadow], [Base
	USB memory to shadow or Base	Memory]
	memory.	
USB KB Legacy	This field enables or disables USB	[Enabled], [Disabled]
Support	keyboard support function.	
USB Mouse	This field enables or disables USB	[Enabled], [Disabled]
Support	mouse support function.	
AC 97 Audio	Change the on board Audio to auto or	[Auto], [Disable]
	disabled	
MAC LAN	Enables or disables onboard LAN	[Enabled], [Disabled]
	controller, If you wish to use the	
	motherboard's onboard LAN	
	controller, you should certainly enable	
	this BIOS feature.	
	You can disable this feature if you do	
	not want to use the motherboard's	
	onboard LAN controller. This may free	
	up an IRQ for other devices to use.	
	This is useful if your motherboard	
	does not support APIC and have many	
	devices that can not share IR Qs.	
MAC LAN Boot	Enables or disables on board LAN	[Enabled], [Disabled]
ROM	boot ROM.	

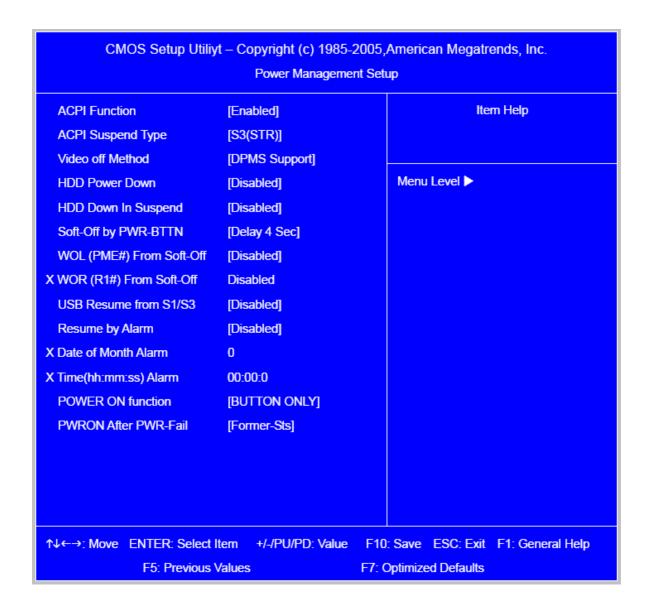
Integrated Peripherals -Onboard I/O Chip Setup

CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc. Onboard I/O Chip Setup				
Onboard FDC Controller [Enabled] Item Help				
Onboard Serial Port 1	[3F8/IRQ4]	Menu Level 🕨		
UART Mode Select	[IrDA]			
UR2 Duplex Mode	[Halt]			
Onboard Parallel Port	[378/IRQ7]			
Parallel Port Mode	[SPP]			
ECP Mode Use DMA	[3]			
↑↓←→: Move ENTER: Select Item +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help				
F5: Previou	s Values F	7: Optimized Defaults		

Parameter	Description	Options
Onboard FDC	Select Enabled if your system has a floppy	[Enabled]. [Disabled]
Controller	disk controller (FDC) installed on the system	
	board and you wish to use it. If you install an	
	add-in FDC or the system has no floppy	
	drive, select Disabled in this field.	
Onboard	Select a logical COM port name and	
Serial Port 1	matching address for the serial port. Select	
	an address and corresponding interrupt for	
	the serial port.	
UR2 Duplex	In an infrared port mode, this field appears.	
Mode	Full-duplex mode permits simultaneous	
	tow-direction transmission. Half-duplex	
	mode permits transmission in one direction	
	only at a time. Select the value required by	
	the IR device connected to the IR port.	
Onboard	Select a logical LPI port address and	[xxx+IRQx]
Parallel Port	corresponding interrupt for the physical	
	parallel port.	
Parallel Port	Select an operating mode for the onboard	[Normal], [EPP],
Mode	parallel (printer) port.	[EPP], [EPP+ECP]
ECP Mode	This item allows users to manually set the	
used DMA	DMA channel for ECP mode	

Power Management

The Power Management menu lets you configure your system to most effectively save energy while operating in a manner consistent with your own style of computer use. The following screen shows the Power Management parameters and their default settings:



Parameter	Description	Options
ACPI Function	This item allows you to enable or disable	[Enabled], [Disabled]
	the ACPI function	
ACPI Suspend	This item specifies the power saving modes	[S1 (POS)]: Set ACPI
Туре	for ACPI function. S1 (POSP: The S1 sleep	suspend
	mode is a low power state In this state, no	type to
	system context (SPU or chipset) is lost and	S1/POS
	hardware maintains all system context/ S3	(Power On
	(STR): The S3 sleep mode is s power-down	Suspend).
	state in which power is supplied only to	[S3 (STR)]: Set ACPI
	essential components such as main	suspend
	memory and wake-capable devices and all	type to
	system context is saved to main memory.	S ₃ /STR
	The information stored in memory will be	
	used to restore the PC to the previous state	
	when an wake-up event occurs.	
HDD Power	The setting controls how long a hard disk	[Disabled], [Standby],
Down	drive must be left idle before it spins	[Suspend]
	downs.	
HDD Down In	Enables or Disables the functionality of	[Enabled], [Disabled]
Suspend	HDD down in suspend	

Parameter	Description	Options
Soft-off by	When Enabled, turning the	[Instant-off]: Press down button
PWR/BTTN	system off with the on/off	then power off instantly
	button places the system in a	[Delay 4 Sec.]: Press Power button 3
	very low-power-usage state,	sec. to power off. Enter
	with only enough circuitry	suspend if button is
	receiving power to detect power	pressed less than 4 sec.
	button activity or Resume by	
	Ring activity.	
WOL	This category enables or	[Enabled], [Disabled]
(PME#)	disables wake-on-Lan from	
From	soft-off	
Soft-Off		
Resume by	You can set "Resume by Alarm"	[Disabled]
Alarm	item to enabled and key in	[Enabled]: Enable alarm function to
	Date/Time to power on system.	Power On system. If
		RTC Alarm Lead to
		Power On is Enabled,
		Date(of Month) Alarm:
		Everyday, 1~31
		Time(hh:mm:ss) Alarm:
		(0.~23):(0-59):(0~59)
POWER ON	Select the method to power on	[Button Only], [Keyboard 98], [Hot
Function	the system	Key], [Mouse Left], [Mouse Right]
POWER	This field allows you to	[FORMER-Sts], [On], [Off]
After	determine the power status to	
PWR-Fail	on/off or former-sts after the	
	system	

PCI/PnP Setup

CMOS Setup Utiliyt – Copyright (c) 1985-2005,American Megatrends, Inc. PnP/PCI Configuration			
Init Display First	[PCIEx]	Item Help	
Reset Configuration Data	[Disabled]		
Resources Controlled By	[Auto(ESCD0)]	Menu Level 🕨	
X IRQ Resources	Press Enter		
PCI/VGA Palette Snoop	[Disabled]		
** PCI Express relative items	**		
Maximum Payload Size	[4096]		
↑↓←→: Move ENTER: Select E5: Previous		F10: Save ESC: Exit F1: General Help F7: Optimized Defaults	
F5: Previous Values F7: Optimized Defaults			

Parameter	Description	Options
Init Display	Initialize the AGP video display before initializing	
First	any other display device on the system. Thus the	
	AGP display becomes the primary display.	
Reset	Normally, you leave this field Disabled. Select	[Enabled],
Configuration	Enabled to reset Extended System Configuration	[Disabled]
Data	Data (ESCD) when you exit Setup if you have	
	installed a new add-on and the system	
	reconfiguration has caused such a serious conflict	
	that the operating system cannot boot	
Resources	This item allows user to assign PnP resource (I/O	[Auto]
Controlled By	address, IRQ&DMA channels) for Plug and Play	[Manual]
	compatible devices automatically or manually	
IRQ Resources	When resource are controlled by manually, assign	[Press Enter]
	each system interrupt a type , depending on the type	
	of device using the interrupt.	
	Option:	
	[PCI Device]: Assign this IRQ for PCI device.	
	[Reserved]: Reserve this IRQ for other device.	
PCI/VGA	This option is only very rarely needed. It should be	[Disabled],
Palette Snoop	left at "Disabled" unless a video device specifically	[Enabled]
	requires the setting enabled upon installation.	
Maximum	This field displays maximum payload size of the	[128-4096]
Payload Size	system	
PCI 1/2 IRQ	This item allows user to assign PCI IRQ for device	[Auto], [3] ,
Assignment		[4],[5],[6],
		[7], [10] ,
		[11], [12],
		[14],[15]

CPU Vcore	1.312V	Item Help
+3.30V	3.312V	
+5V	5.026V	
+12V	11.840V	Menu Level 🕨
+5USB	5.053V	
Voltage Battery	2.92V	
Current CPU Temperature	54°C/129°F	
Current SYSTEM Temperature	45°C/113'F	
CPU FAN Speed	ORPM	
System FAN Speed	0 RPM	

PC Health Status

The following table describes the parameters found in this menu:

Parameter	Description	Options
V core	Detect system's voltage status	
	automatically	
CPU Temperature	Detect CPU Temperature automatically	
CPU/SYSTEM FAN	Detect CPU/SYSTEM Fan Speed Status	
Speed (RPM)	automatically	
CPU Smart FAN	The item displays the system Smart Fan	
Control	Function status. It is always enabled by	
	system.	

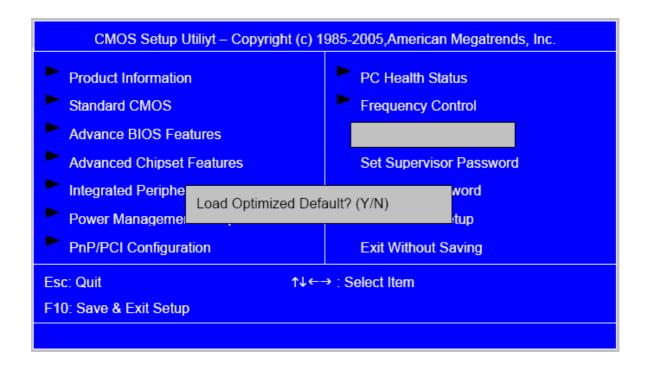
Frequency/Voltage Control

CMOS Setup Utility - Copyright (C) 1985-2005,American Megatrends,Inc.			
Frequ	ency/Voltage Control		
Manufacturer: Intel		Help Item	
Ratio Status: Unlocked (Min:06,Max:10)			
Ratio Actual Value: 10		Options	
CPU Frequency : 266M	Hz		
Auto Detect DIMM/PCI CLK Enal	bled	Disabled	
Spread Spectrum Enab	led	Enabled	
	Select +/-/:Value F10:Save		
F1:General Help	F9:Optimized Defa	aults	

Parameter Description Optio ns Auto Detect This option allows you to enable/disable the feature of Enabled DIMM/PCI CLK auto detecting the clock frequency of the installed PCI Disabled bus. Manufacturer This item specifies CPU Manufacturer Intel **CPU** frequency This item specifies CPU frequency 266MHz When the motherboard's clock generator pulses, the Enabled Spread extreme values (spikes) of the pulses create EMI Spectrum (Electromagnetic Interference). The spread Spectrum function reduces the EMI generated by modulating the pulses so that the spikes of the pulses are reduced to flatter curves. If you do not have any EMI problem, leave the setting at Disabled for optimal system stability and performance. But if you are plagued by EMI, setting to Enabled for EMI reduction. Remember to disable Spread Spectrum if you are overlooking because even a slight jitter can introduce a temporary boost in clock speed which may just cause your over lock ed processor to lock up.

Load Default Settings

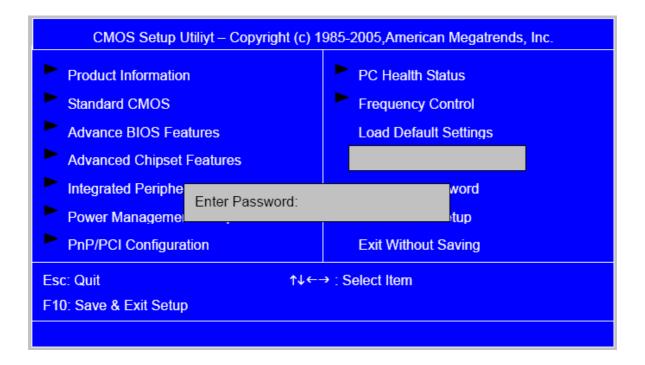
This option opens a dialog box that lets you install defaults for all appropriate items in the Setup Utility.



Parameter	Description	Options
Load Default	Select the field loads the factory defaults for BIOS and	
Settings	Chipset Features, which the system automatically	
	detects. This option opens a dialog box that lets you	
	install optimized defaults for all appropriate items in the	
	Setup Utility.	

Set Supervisor/User Password

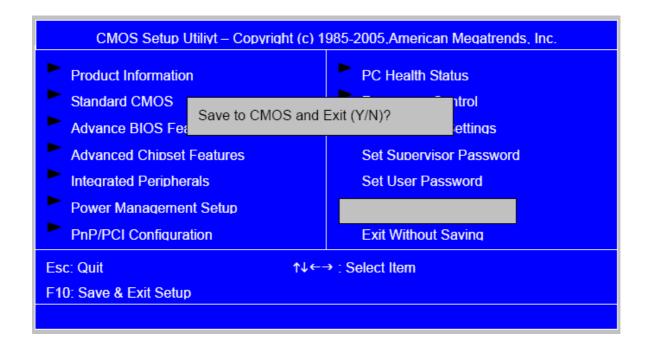
When this function is selected, the following message appears at the center of the screen to assist you in creating a password.



Parameter	Description	Options
Set	When this function is selected, the following message	
Supervisor/User	appears at the center of the screen to assist you in	
Password	creating a password.	
	ENTER PASSWORD	
	Type the password, up to eight characters, and	
	press <enter>. The password typed now will clear any</enter>	
	previously entered password from CMOS Memory. You	
	will be asked to confirm the password. Type the password	
	again and press <enter>. You may also press<esc> to</esc></enter>	
	abort the selection.	
	PASSWORD DISABLED	
	To disable password, just press <enter> when you are</enter>	
	prompted to enter password with empty. A message will	
	confirm the password being disabled.	
	If you have selected "System" in "Security Option" of	
	"BIOS Feature Setup" menu, you will be prompted for the	
	password every time the system reboots or any time you	
	try to enter BIOS Setup. If you have selected "Setup" at	
	"Security Option" from "BIOS Features Setup" menu, you	
	will be prompted for the password only when you enter	
	BIOS Setup.	
	Supervisor Password has higher priority than User	
	Password. You can use Supervisor Password when	
	booting the system or entering BIOS Setup to modify all	
	settings.	

Save & Exit Setup

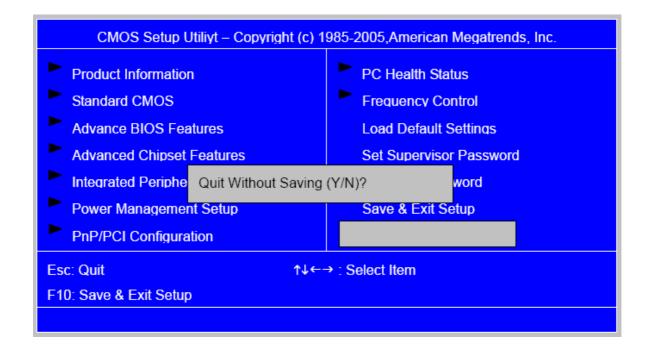
Highlight this item and press <Enter> to save the changes that you have made in the Setup Utility and exit the Setup Utility.



Parameter	Description	Options
Save & Exit Setup	Press <enter> to save the changes that have made</enter>	
	in the Setup Utility and exit the Setup Utility.	
	Press <y> to save and Exit or <n> to return to the</n></y>	
	main menu.	

Exit Without Saving

Highlight this item and press <Enter> to discard any changes that you have made in the Setup Utility and exit the Setup Utility.



Parameter	Description	Options
Exit Without Saving	Press <enter> to discard any changes and exit</enter>	
	the Setup Utility	

Machine Disassembly and Replacement

To disassemble the computer, you need the following tools: Wrist grounding strap and conductive mat for preventing electrostatic discharge. Wire cutter.

Phillips screwdriver (may require different size).

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.

General Information

Before You Begin

Before proceeding with the disassembly procedure, make sure that you do the following:

- 1. Turn off the power to the system and all peripherals.
- 2 2.Unplug the AC adapter and all power and signal cables from the system

Disassembly Procedure

This section tells you how to disassemble the system when you need to perform system service. Please also refer to the disassembly video, if available.

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

Aspire M1620 Standard Disassembly Process

Opening the System

1 Place the system unit on a flat, steady surface.



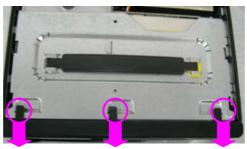
2 Release the screw that shown below.



3 Remove the top cover.



4 As shown pull three button up.

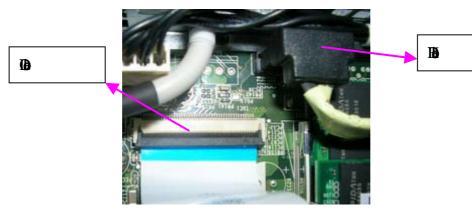


5. Take the belt shown as below.

Release this screw first



6. Detach ODD & HDD data and power cable.



7. Detach HDD date and power cable.



RB.

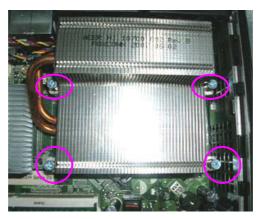
8 Detach HDD SATA Data and power cable attach to MB



9 Detach LED cable.



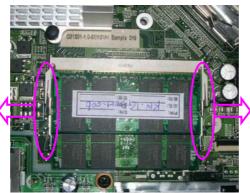
O Release four screws as shown below and disconnect the CPU cools.



1 Disconnect the CPU.



2 Remove the Memory.



3 Remove the Video-in cable and TV-out cable.



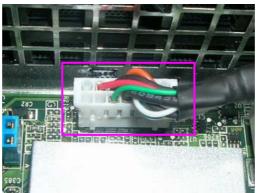
4 Remove the Front audio cable.



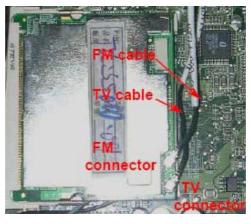
5. Remove the Front card reader cable and Front audio cable.

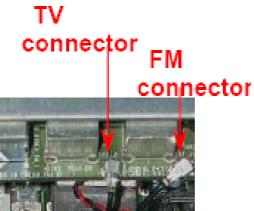


16.Remove the Video-in cable.



17.Remove the FM cable and TV cable.





18.Remove the SYS_FAN A Cable A&B.



19.Release eight screws then remove the System FAN.



20.Remove the TV Card.



21.Remove the Wireless LAN Cable then release the LAN card.



22.Remove the Audio and Video Board.



23.Remove USB & Audio module.



24.Remove the MB.



VeritonL460 Standard Disassembly Process

Opening the System

1.Place the system unit on a flat, steady surface.



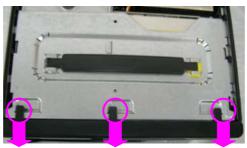
2.Release the screw that shown below.



3.Remove the top cover.



4.As shown pull three button up.



5.Take the belt shown as below.

Release this screw first



6.Detach ODD & HDD data and power cable.



7.Detach HDD date and power cable.



FB

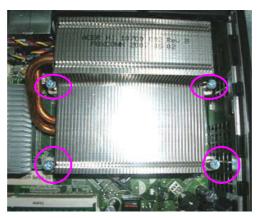
8.Detach HDD SATA Data and power cable attach to MB



9.Detach LED cable.



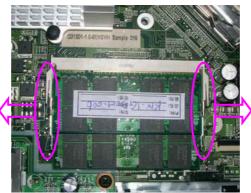
10.Release four screws as shown below and disconnect the CPU cools.



11.Disconnect the CPU.



12.Remove the Memory.



13.Remove the Video-in cable and TV-out cable.



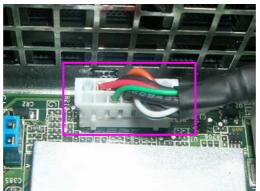
14.Remove the Front audio cable.



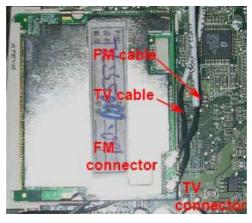
15.Remove the Front card reader cable and Front audio cable.

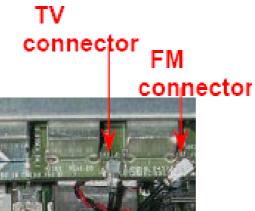


6. Remove the Video-in cable.



7. Remove the FM cable and TV cable.





8 Remove the SYS_FAN A Cable A&B.



9 Release eight screws then remove the System FAN.



Ø Remove the TV Card.



21. Remove the Wireless LAN Cable then release the LAN card.



2 Remove the Audio and Video Board.



2 Remove USB & Audio module.



Remove the MB.



Troubleshooting

Please refer to generic troubleshooting guide for troubleshooting information relating to following topics:

- □ Power-On Self-Test (POST)
- POST Check Points
- D POST Error Messages List
- □ Error Symptoms List

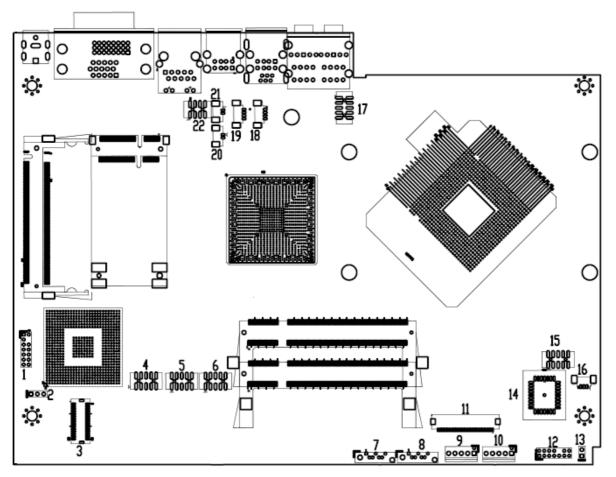
Jumper and Connector Information

Jumper Setting

This section explains how to set jumpers for correct configuration of the main board.

Setting Jumper

Use the motherboard jumpers to set system configuration options. Jumpers with more than one pin are numbered. When setting the jumpers, ensure that the jumper caps are placed on the correct pins.



1.Clear CMOS jumper(No.2)

jumper	symbol	Description	Function
3 2 1		1-2 close	Clear CMOS
3 Pin	•••	2-3 close	Normal (Default)

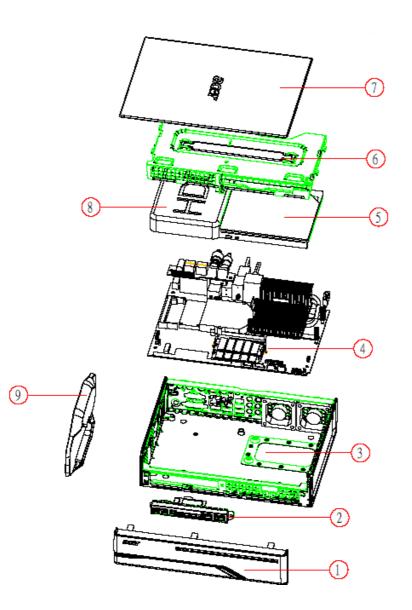
	M/B On-Board Connectors					
No.	Connector marking	Description				
1	MINIDIN1	SVIDEO Signal In header				
2	CLR_CMOS1	Clear CMOS				
3	FUSB1394	Front USB and 1394 header				
4	F_1394_1	Front 1394 header				
5	F_USB1	Front USB header 1				
6	F_USB2	Front USB header 2				
7	SATA2	SATA device connector 2				
8	SATA1	SATA device connector 1				
9	SATAP5CN1	ODD Power connector				
10	SATAP12CN1	HDD Power connector				
11	IDE1	IDE device connector				
12	FP1	Front Panel Switch/LED				
13	INTR1	Chassis Intruder				
14	U9	BIOS Socket				
15	IR	IR header				
16	BAT1	Battery connector				
17	FAUDIO1	Front Audio header				
18	SYS_FAN2	SYS fan header2				
19	SYS_FAN1	SYS fan header1				
20	NB-FAN1	NB fan header				
21	OBR1	One button recovery header				
22	TVSPDIF1	SPDIF OUT header				

FRU (Field Replaceable Unit) List

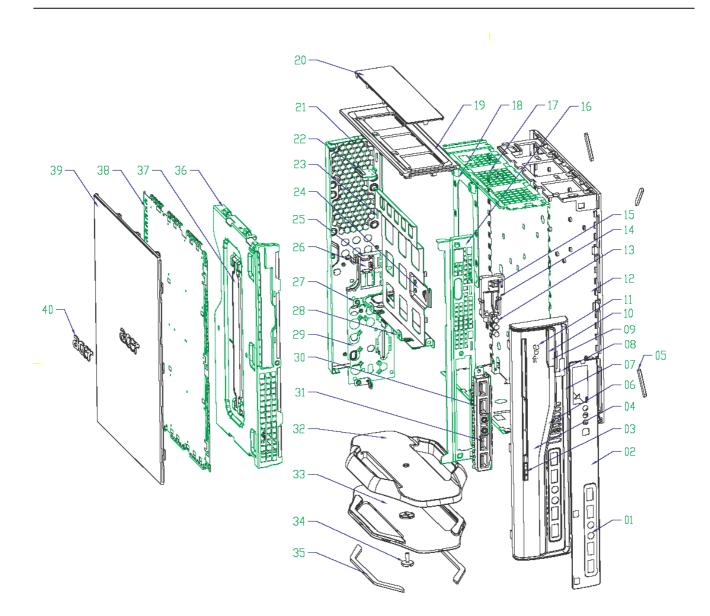
This chapter gives you the FRU (Field Replaceable Unit) listing in global configurations of **Aspire M5620 VeritonT551/M661/S661**. Refer to this chapter whenever ordering for parts to repair or for RMA (Return Merchandise Authorization).

NOTE: Please note WHEN ORDERING FRU PARTS, that you should check the most up-to-date information available on your regional web or channel (http://aicsl.acer.com.tw/spl/, if you do not own a specific account, you can still access the system with guest; guest). 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.

Exploded Diagram



LABEL	DESCRIPTION
1	BEZEL
2	FRONT IO
3	CHASSIS
4	MOTHERBOARD
5	SLIM ODD
6	ODD AND HDD
	BRACKET
7	TOP COVER
8	HDD
9	PEDESTAL



40	ACER_LOED1	AL	1	
39	TOP_COVER	ZEA	1	
ЗB	TOP-SHELD	SPIE	1	
37	HD_BKT_HWDLE	PP	1	
36	CIIII-8KT	a	1	
35	FUUT_PEDESTAL	RUBBER	2	
34	HUSKY_PEDESTAL_SCREW	C1018	1	
33	HUSKY_PEDESTAL_COVER	28A	1	
32	HUSKY_PEDESTAL	ZEA	1	
31	USB_PCB_ASM	STANDARII	1	
30	SHEETHETAL-USB-BOX	a	1	
29	SHEETHETAL-ID	SUS	1	
28	000-8KT-03	a	1	
27	DAUGHTER-BOARD	a	1	
26	CER_PCB_ASM	STANDARII	1	
25	DBR_HOLDER	ZEA	1	
24	SHEETHETAL-HOD-CLIP	SUS	1	
23	000-8KT-02	a	1	
22	INTRUSION-BKT	GI	1	
21	ACERPOVER_BACK-JD	a	1	
20	VENT-COVER-NEV	- 网	1	
19	SIDE_CITVER	ABS	1	
LB	MB_SUPPORT	G	1	
17	ROTTON-SHOELD	SPTE	1	
16	FRONT	ABS	1	
15	POWER_SWETCH_ASH	STANDARI	1	
- 14	SWITH-HOLDER	ZEA	1	
13	Ð	STANDARI	4	
15	HUSKY_U_BASE	ABS	1	
11	ACER_LOGI2	STANDARI	1	
10	POVER_MILAR	PC	1	
9	LENS	PC	1	
8	HUSKY_LENS_NYLAR	PC	1	
7	HUSKY_BEZEL	ABS	1	
6	BEZEL_NYLAR	PC	1	
5	FULT_U_DASE	RUBBER	4	
4	HUSKY-BEZEL-COVER	ABS	1	
3	RUTTON	ABS	1	
2	FAN_COVER	- 网	1	
1	USB_HYLAR	PC	1	
ND.	PART NAME	MATERIAL	RLA	REMARK

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