
Acer

Veriton M275 Service Guide

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Revision History

Please refer to the table below for the updates made on this service guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this manual:

SCREEN MESSAGES	Denotes actual messages that appear on screen.
NOTE	Gives additional information related to the current topic.
WARNING	Alerts you to any physical risk or system 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.

Service Guide Coverage

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.

FRU Information

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 Tour

Features

Below is a brief summary of the computer's many feature:

NOTE: The features listed in this section is for your reference only. The exact configuration of the system depends on the model purchased.

Operating System

- Microsoft Windows 7 Home Premium (X86/ X64)
- Microsoft Windows 7 HB X86
- Microsoft Windows 7 Professional (X86/ X64)
- Microsoft Windows Vista Business X86
- Microsoft Windows XP Professional
- FreeDOS
- Linpus X-Window

Processor

- Socket Type: Intel LGA775
- Socket Quantity: 1
- Processor Type:support Yorkfield and Wolfdale CPUs and list in FRU.

Chipset

- Intel G41 + ICH7

PCB

- 244mm*244mm

Memory subsystem

- Socket Type: DDRIII DIMM Memory Slots.
- Socket Quantity: 2
- Memory Type:DDRIII.
- Speed:1066 MHz
- Capacity support: Maxmium to 4GB.
- Design Criteria:
 - Support Dual channel

Hard disk

- Support SATA interface.
- 3.5", 25.4mm, 160/320 or higher capacity.
- 7200 rpm.

Optical disk

- Support one SATA 5.25" standard ODD
- Support DVD-ROM, DVD-SuperMulti

Serial ATA controller

- Connector Type: SATA IDE connector.
- Connector Quantity: 4
- Storage Type support:
 - 3.5" SATA/SATAII HDD.
 - DVD and SuperMulti.
 - Default AHCI mode in normal BIOS and IDE mode in non-Windows BIOS.

Audio

- Chip : HD audio codec support 5.1Channel.
- Connectors support:
 - Audio jacks color coding: should meet Microsoft Windows Logo Program Device Requirements: Audio-0002
 - 1 front panel audio header (2*5)
 - S/N ration: 90dB at rear output jack
 - Follow Acer Audio spec and should support Acer Internal speaker.
 - BIOS should meet MS Pin Configuration Guidelines for High Definition Audio Devices

LAN

- Broadcom 57760,Single Chip Giga Controller
- support 10/100/1000

USB ports

- Ports Quantity: 8
 - 4 port for rear ports.
 - On-board: two 2*5 headers.
 - 4 ports for front daughter board.
- Connector Pin: standard Intel FPIO pin definition.
- Data transfer rate support: USB 2.0/1.1

Extension slot

- PCI Express Slot Type: x16
 - PCI Express x16 Slot Quantity: 1
- PCI Express Slot Type: x1
 - PCI Express x1 Slot Quantity: 1
- 2 PCI

All On-Board Connectors

- Rear I/O connectors
 - 1 D-Sub port
 - 1COM port (only for commercial vRonnie)
 - 4 USB ports

-
- 1 RJ45 LAN port
 - 3 audio jack for 5.1 channel phone jack.
 - 2 PS2 keyboard/mouse connector
 - On-board connectors
 - 1 LGA775 socket.
 - 2 DDR3 memory sockets.
 - 1 PCI Express x16 slot.
 - 2 PCI slot +1 PCI Express x 1 slot.
 - Two 2*5 pin Intel FPIO specification USB pin connectors(follow Intel FPIO standard Specification).
 - One 2*5 pin Intel FPIO spec. Microphone In/ Headphone Out pin connectors.
 - One 4 pin CPU Fan connector.
 - One 24pin ATX interface PS3/PS2 SPS connector.
 - One 4 pin CPU power connector.
 - One 2*7 pin front panel IO header.
 - One Jumper for clear CMOS.
 - One on board buzzer.
 - One reserved 2pin GPIO connector (for Intrusion).
 - 1 LPT port header.
 - 1 COM2 port header.
 - 1 TPM header.
 - One 1*3 System FAN Header.
 - 1 Internal speaker header.
 - 1 OBR header.
 - 1 FDD socket .
 - 1 SPDIF header.

Buzzer

- 1 on board buzzer

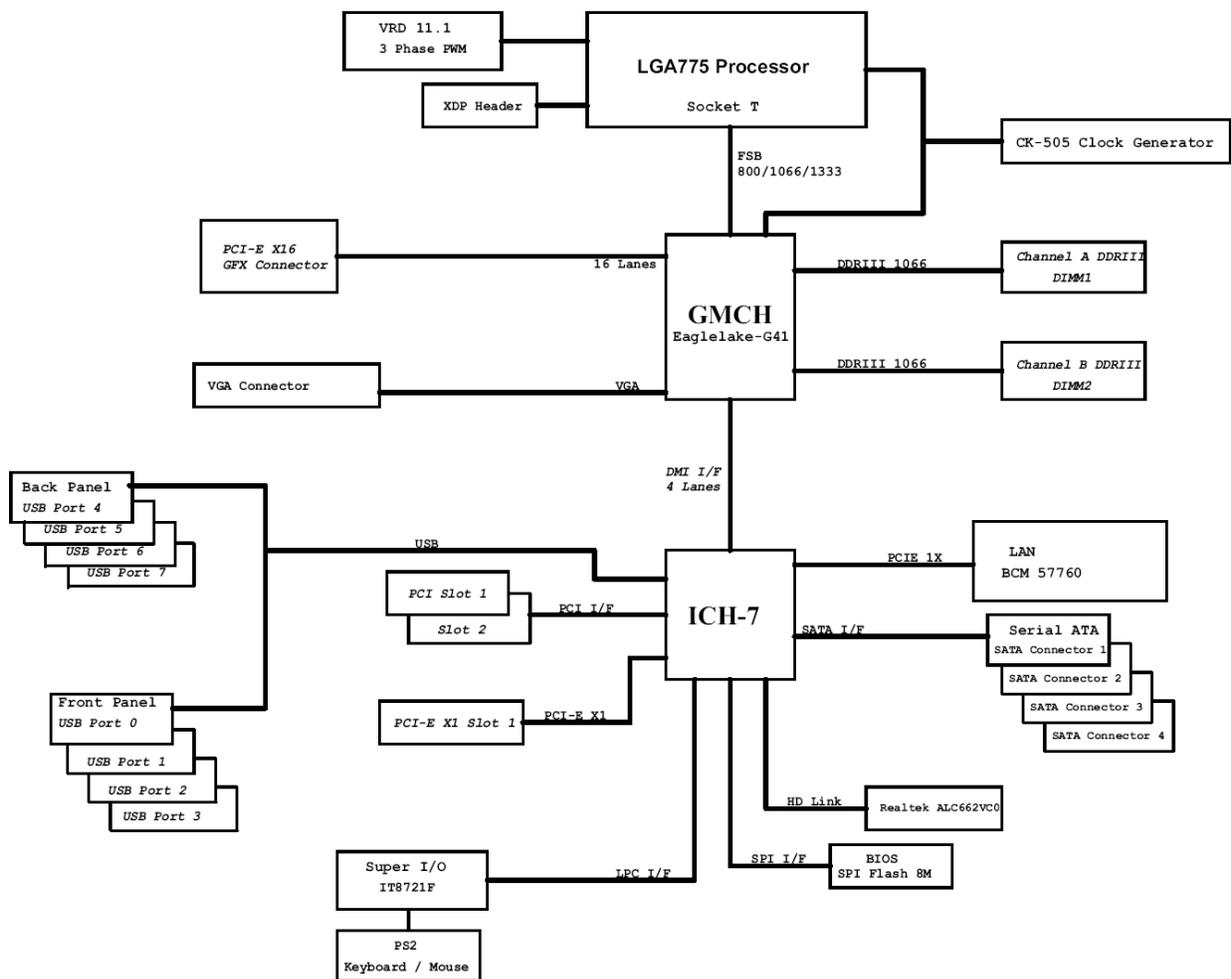
System BIOS

- BIOS Type: AMI with PackedBell skin.
- Size:8Mb.

Power supply

- 300W/250W in stable mode (Acer Assign System Power Unit).
- Design for Intel Eaglelake ICH7 series chipset compatible system.
- Voltage design should be covered +5V, +3.3V, +12V, +5VSB, -12V (attention to 12V output capability).
- Demand for both PFC/Non-PFC solutions.
- Minimum 4 Serial ATA power connector solution should be included (by default).
- Minimum 1 big 4-pin power connector included.
- Minimum 1 small 4-pin power connector included.
- PFC version will not provide switch selector for 115/230V AC input but it should be universal for Europe and China.
- Non-PFC version should provide switch selector for 115/230V AC input and universal for worldwide
- PS2 style.

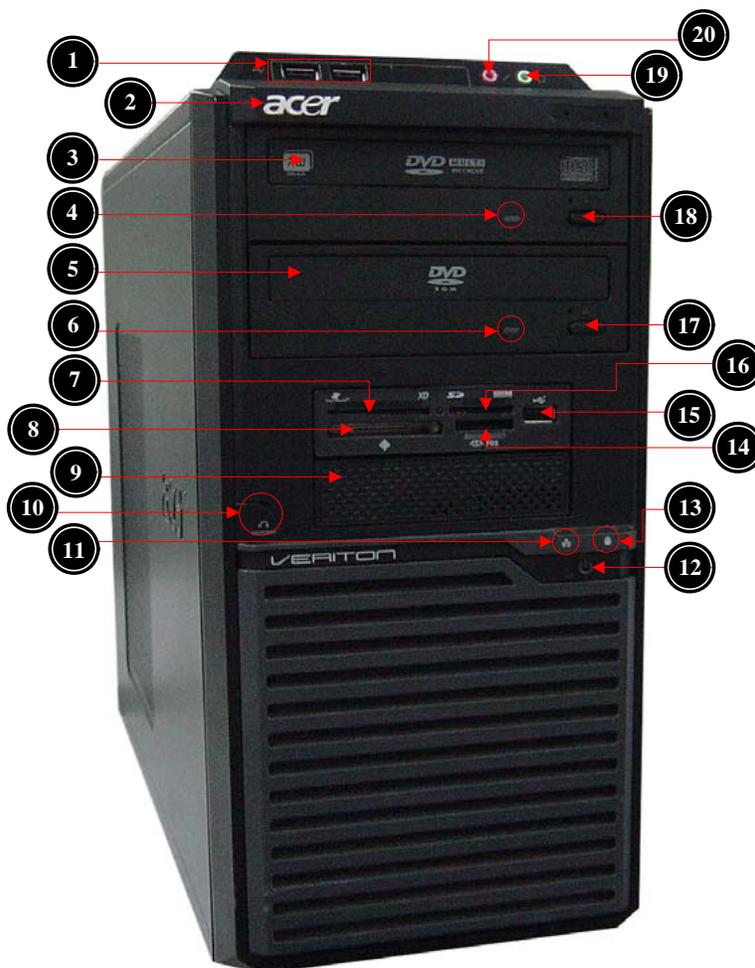
Block Diagram



System Components

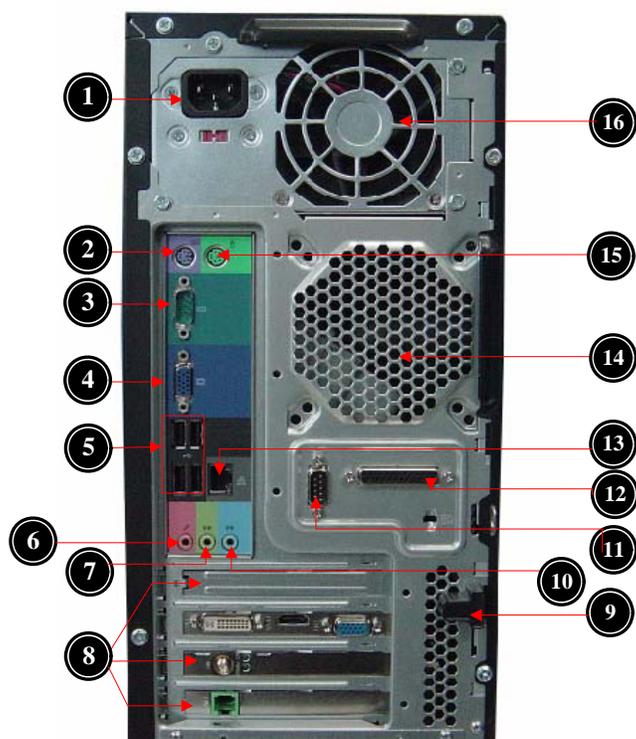
This section is a virtual tour of the system's interior and exterior components.

Front Panel



No.	Component	No.	Component
1	USB 2.0 ports	11	LAN activity indicator
2	Acer logo	12	Power button
3	Optical drive(1)	13	HDD activity indicator
4	ODD activity indicator(1)	14	MS/MS PRO slot
5	Optical drive(2)	15	USB 2.0 ports
6	ODD activity indicator(2)	16	SD/MMC(Secure Digital/ MultiMedia Card)slot
7	Smart Media card reader and XD(XD- Picture) slot	17	Optical drive button(2)
8	CF I/II (CompactFlash Type I/II) slot	18	Optical drive button(1)
9	Expansion slot(Internal speaker or FDD)	19	Headphone/Speaker-out/line-out jack
10	Recover jack	20	Microphone-in jack

Rear Panel



No.	Component
1	Power connector
2	PS2 keyboard connector
3	COM port
4	VGA ports
5	USB 2.0 port
6	Microphone/speaker-out/line-in jack
7	Line-out jack
8	Expansion slot(graphics card ect.)
9	Lock Handle
10	Line-in jack
11	COM port
12	Printer port
13	RJ45 LAN port
14	System Fan
15	PS2 mouse connector
16	Fan aperture

Hardware Specifications and Configurations

Processor

Item	Specification
Type	support varied Intel processors that the maximum power consumption is equal and under 65W. support Intel Core 2 Quad, Core 2 Duo CPU.
Socket	Intel LGA775 socket
FSB	1333/1066/800 MHz
Minimum operating speed	0 MHz (If Stop CPU Clock in Sleep State in BIOS Setup is set to Enabled.)

BIOS

Item	Specification
BIOS code programmer	AMI Kernel with eMachines
BIOS version	P01-A0
BIOS ROM type	SPI ROM
BIOS ROM size	8MB
Support protocol	Check "2.20 BIOS Version Control" of "Acer DT BIOS Requirements v1.55" or later version
Device Boot Support	1st priority: SATA HDD 2nd priority: CD-ROM 3rd priority: Removable Device 4th priority: LAN
Support to LS-120 drive	NO
Support to BIOS boot block feature	YES

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 G41
South Bridge	Intel ICH7
VGA controller	Intel G41
Audio controller	Realtek ALC662-VC
LAN controller	Intel ICH7+Realtek LAN 8111DL
USB controller	Intel ICH7

Memory Combinations

Slot	Memory	Total Memory
Slot 1	1GB, 2GB	1GB ~2GB
Slot 2	1GB, 2GB	1GB ~2GB
Maximum System Memory Supported		1GB ~4GB

System Memory

Item	Specification
Memory slot number	2 slot
Support Memory size per socket	1GB/2GB
Support memory type	DDR3
Support memory interface	DDR3 1066MHz
Support memory voltage	1.5V
Support to parity check feature	Yes
Support to error correction code (ECC) feature	No
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	Intel ICH7+Realtek ALC662-VC
Audio controller type	ALC662-VC
Audio channel	codec 5.1(3port)
Audio function control	Enable/Disable by BIOS setup
Mono or stereo	Stereo
Compatibility	The ALC662-VC series support host audio controller from the Intel ICH series chipset, and also from any other HDA compatible audio controller. With EAX/ Direct Sound 3D/I3DL2/A3D compatibility, and excellent software utilities like environment sound emulation, multiple bands of software equalizer and dynamic range control, optional Dolby® Digital Live, DTS® CONNECT™, and Dolby® Home Theater programs, provides an excellent home entertainment package and game experience for PC users.
Music synthesizer	Yes,internal FM synthesizer
Sampling rate	192KHz (max)
MPU-401 UART support	Supported
Microphone/Headphone jack	Supported

SATA Interface

Item	Specification
SATA controller	Intel ICH7
SATA controller resident bus	PCI bus
Number of SATA channel	SATA X 2
Support bootable CD-ROM	YES

USB Port

Item	Specification
Universal HCI	USB 2.0/1.1
USB Class	Support legacy keyboard for legacy mode
USB Connectors Quantity	2 port for rear ports. On-board: 3 2*5 headers. 4 ports for front daughter board.

Environmental Requirements

Item	Specification
Temperature	
Operating	+5°C ~ +35°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.

Power Management

Devices	S1	S3	S4	S5
Power Button	V	V	V	V
USB Keyboard/Mouse	V	V	N/A	N/A
PME	Disabled	Disabled	Disabled	Disabled
RCT	Disabled	Disabled	Disabled	Disabled
WOR	Disabled	Disabled	Disabled	Disabled

- Devices wake up from S3 should be less than.
- Devices wake up from S5 should be less than 10 second

Power Management Function(ACPI support function)

Device Standby Mode

- Independent power management timer for hard disk drive devices(0-15 minutes,time step=1minute).
- 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 3-5sec

Global Standby Mode

- Global power management timer(2-120minutes,time step=10minute).
- 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: Resume to original state by pushing external switch Button,modem ring in,keyboard an mouse for APM mode.
- Resume recovery time :7-10sec

Suspend Mode

- Independent power management timer(2-120minutes,time step=10minute)or pushing extern switch button.
- CPU goes into SMM
- CPU asserts STPCLK# and goes into the Stop Grant State.
- LED on 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: Resume to original state by pushing external switch Button,modem ring in,keyboard an 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,S2 and S5 sleep state support.
- On board device power management support.
- On board device configuration support.

System Utilities

CMOS Setup Utility

CMOS setup is a hardware configuration program built into the system ROM, called the complementary metal-oxide semiconductor (CMOS) Setup Utility. Since most systems are already properly configured and optimized, there is no need to run this utility. You will need to run this utility under the following conditions.

- When changing the system configuration settings
- When redefining the communication ports to prevent any conflicts
- When modifying the power management configuration
- When changing the password or making other changes to the security setup
- When a configuration error is detected by the system and you are prompted ("Run Setup" message) to make changes to the CMOS setup

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

CMOS setup loads the configuration values in a battery-backed nonvolatile memory called CMOS RAM. This memory area is not part of the system RAM which allows configuration data to be retained when power is turned off.

Before you run the *CMOS Setup Utility*, make sure that you have saved all open files. The system reboots immediately after you close the Setup.

NOTE: *CMOS Setup Utility* will be simply referred to as "BIOS", "Setup", or "Setup utility" in this guide.

The screenshots used in this guide display default system values. These values may not be the same those found in your system.

Entering CMOS setup

1. Turn on the server and the monitor.

If the server is already turned on, close all open applications, then restart the server.

2. During POST, press **Delete**.

If you fail to press **Delete** before POST is completed, you will need to restart the server.

The Setup Main menu will be displayed showing the Setup's menu bar. Use the left and right arrow keys to move between selections on the menu bar.

Navigating Through the Setup Utility

Use the following keys to move around the Setup utility.

- **Left** and **Right** arrow keys – Move between selections on the menu bar.
- **Up** and **Down** arrow keys – Move the cursor to the field you want.
- **PgUp** and **PgDn** keys – Move the cursor to the previous and next page of a multiple page menu.
- **Home** – Move the cursor to the first page of a multiple page menu.
- **End** – Move the cursor to the last page of a multiple page menu.
- **+** and **-** keys – Select a value for the currently selected field (only if it is user-configurable). Press these keys repeatedly to display each possible entry, or the **Enter** key to choose from a pop-up menu.

NOTE: Grayed-out fields are not user-configurable.

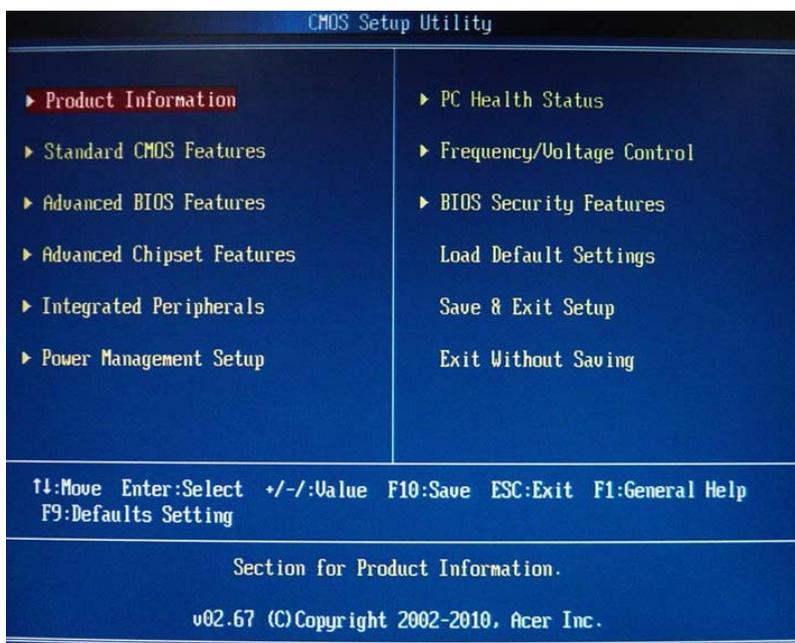
- **Enter** key – Display a submenu screen.

NOTE: Availability of submenu screen is indicated by a (>).

- **Esc** – If you press this key:
 - On one of the primary menu screens, the Exit menu displays.
 - On a submenu screen, the previous screen displays.
 - When you are making selections from a pop-up menu, closes the pop-up without making a selection.
- **F1** – Display the General Help panel.
- **F6** – Press to load optimized default system values.
- **F7** – Press to load fail-safe default system values.
- **F10** – Save changes made the Setup and close the utility.

Setup Utility Menus

The Setup Main menu includes the following main setup categories.

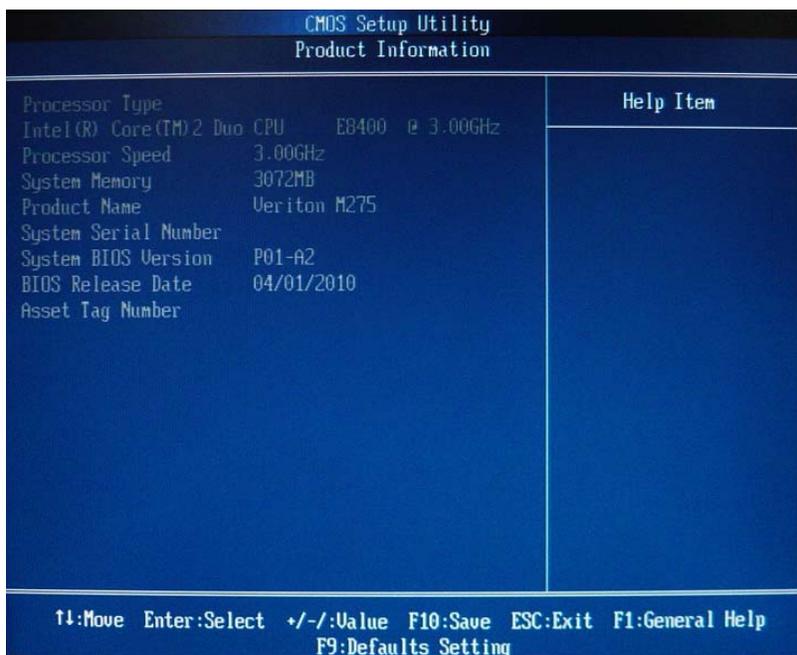


Parameter	Description
Product Information	This page shows the relevant information of the main board
Standard CMOS Features	This setup page includes all the items in standard compatible BIOS
Advanced Chipset Features	This setup page includes all the items of Award special enhanced features
Advanced Chipset Features	This setup page includes all advanced chipset features
Integrated Peripherals	This setup page includes all onboard peripherals
Power Management Setup	This setup page includes all the items of Green function features
PC Health Status	This setup page is the System auto detect Temperature, voltage, and fan speed
Frequency/Voltage Control	This setup page is the System Frequency setup
BIOS Security Features	Change, set or disable password. It allows you to limit access to the System
Load Default Setting	Load Default Setting indicates the value of the system parameters which the system would be in best performance configuration
Save & Exit Setup	Save CMOS value settings to CMOS and exit setup
Exit Without Saving	Abandon all CMOS value changes and exit setup

In the descriptive table following each of the menu screenshots, settings in **boldface** are the default and suggested settings.

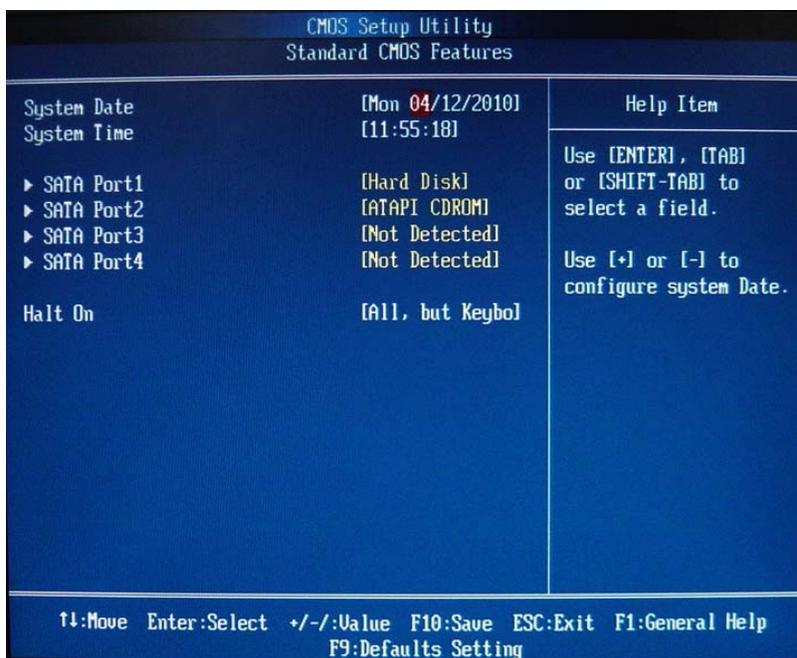
Product Information

The Product Information menu displays basic information about the system. These entries are for your reference only and are not user-configurable.



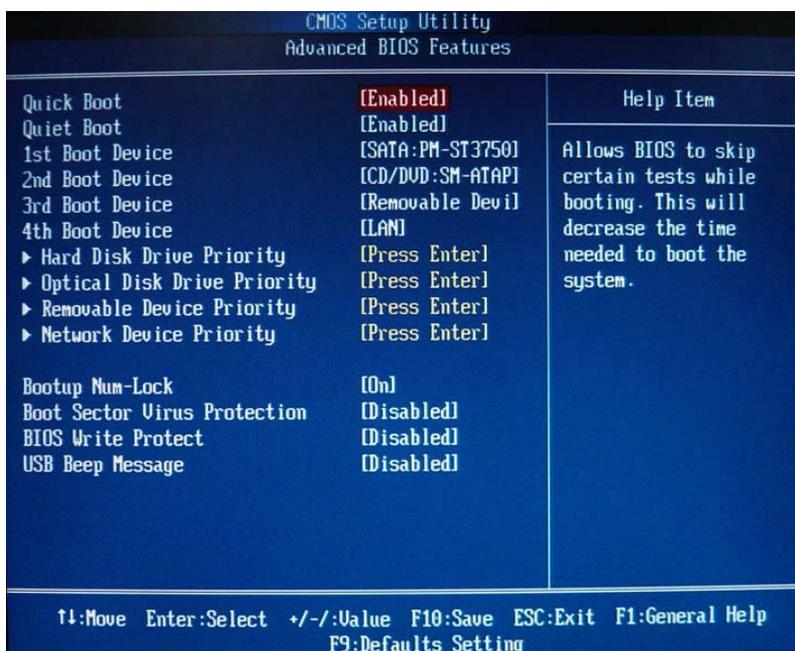
Parameter	Description
Processor Type	Type of CPU installed on the system.
Processor Speed	Speed of the CPU installed on the system.
System Memory	Total size of system memory installed on the system.
System Manufacturer	Name of the manufacturer of this system.
Product Name	Product name of the system.
System Serial Number	Serial number of the system.
System BIOS Version	Version number of the BIOS setup utility.
BIOS Release Date	Date when the BIOS setup utility was released
Asset Tag Number	Asset tag number of this system.

Standard CMOS Features



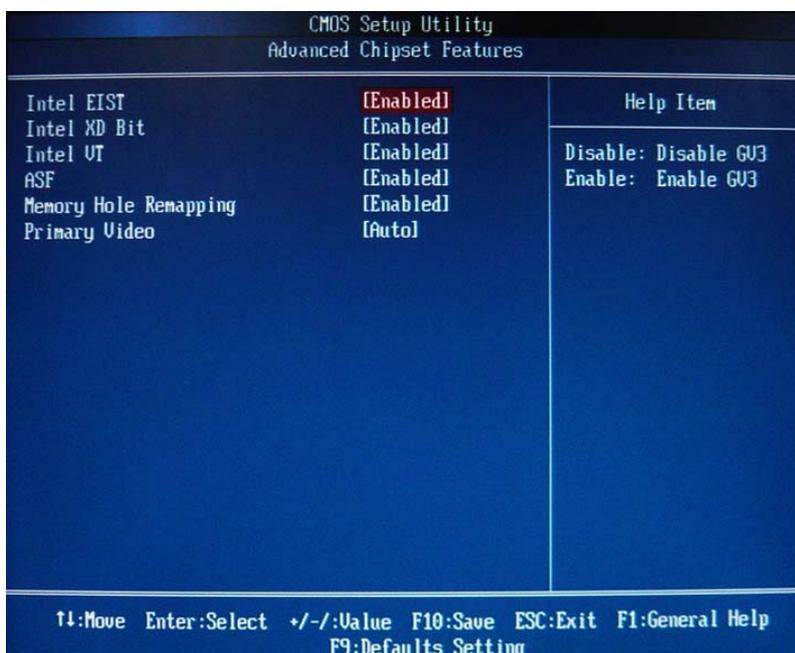
Parameter	Description	Option
System Date	Set the date following the weekday-month-day-year format.	
System Time	Set the system time following the hour-minute-second format.	
SATA Port 1/2/3/4	Press Enter to view detailed device information connected to the SATA connectors.	
Halt On	Determines whether the system will stop for an error during the POST.	All, But Keyboard No Errors All Errors

Advanced BIOS Feature



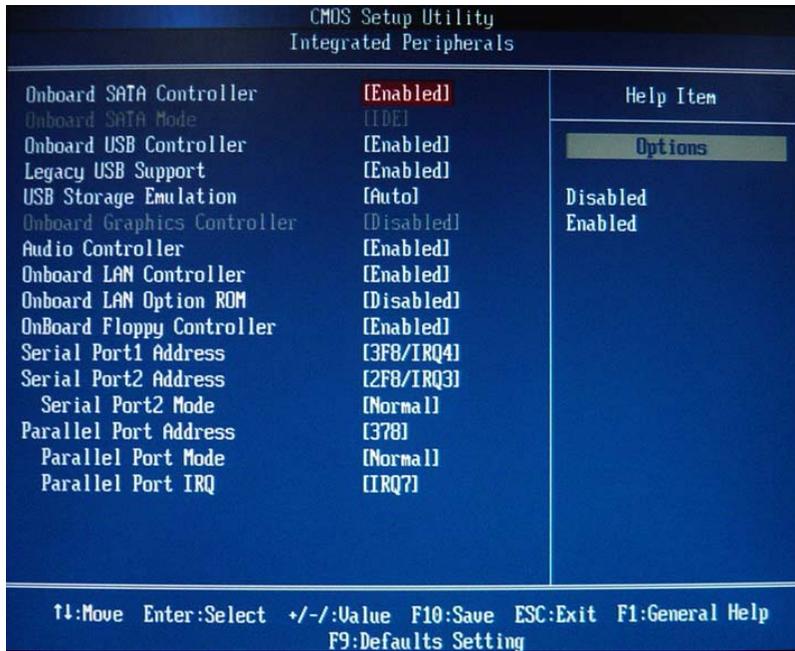
Parameter	Description	Option
Quick Boot	Allows you to decrease the time it takes to boot the computer by shortening or skipping certain standard booting process.	Enabled Disabled
Quiet Boot	When enabled, the BIOS splash screen displays during startup. When disabled, the diagnostic screen displays during startup.	Enabled Disabled
1st/2nd/3rd/4th Boot Device	Specifies the boot order from the available devices.	Hard Disk CD^DVD Removable Device LAN
Hard Disk Drive Priority	Press Enter to access the Hard Disk Drive Priority submenu and specify the boot device priority sequence from available hard drives.	
Optical Disk Drive Priority	Press Enter to access the Optical Disk Drive Priority submenu and specify the boot device priority sequence from available optical drives.	
Removable Drive Priority	Press Enter to access the Removable Drive Priority submenu and specify the boot device priority sequence from available removable drives.	
Network Drive Priority	Press Enter to access the Network Drive Priority submenu and specify the boot device priority sequence from available network drives.	
Bootup Num-Lock	Selects power on state for Num Lock.	On Off
Boot Write Protect	If set to Disabled, when anything attempts to access the boot sector or hard disk partitiontable, there will be no warning message to appear.	Disabled Enabled
USB Beep Message	Enables or disables BIOS to display error beeps or messages during USB device enumeration.	Disabled Enabled

Advanced Chipset Features



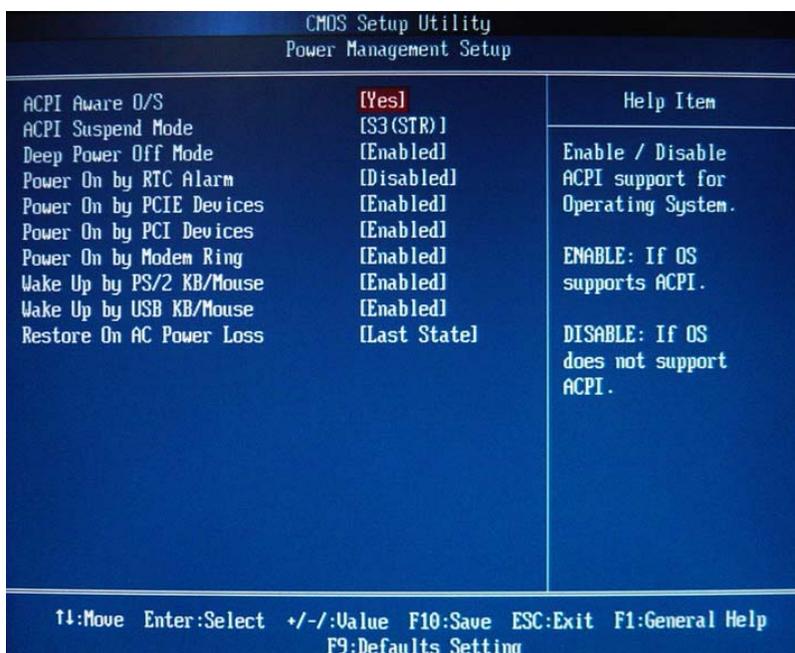
Parameter	Description	Option
Intel EIST	When enabled, this feature allows the OS to reduce power consumption. When disabled, the system operates at maximum CPU speed.	Enabled Disabled
Intel XD Bit	When enabled, the processor disables code execution when a worm attempts to insert a code in the buffer preventing damage and worm propagation. When disabled, the processor forces the Execute Disable (XD) Bit feature flag to always return to 0.	Enabled Disabled
Intel VT	Enables or disables the Virtualization Technology (VT) availability. If enabled, a virtual machine manager (VMM) can utilize the additional hardware virtualization capabilities provided by this technology. Note: A full reset is required to change the setting.	Enabled Disabled
Memory Hole Remapping	Enables or disables remapping of overlapped PCI memory above the total physical memory.	Enabled Disabled
Primary Video	Select a graphic controller as a primary boot device.	Auto PCIE Onboard VGA

Integrated Peripherals



Parameter	Description	Option
Onboard SATA Controller	Enables or disables the onboard SATA controller.	Enabled Disabled
Onboard SATA Mode	Select an operating mode for the onboard SATA.	RAID Native IDE
Onboard USB Controller	Enables or disables the onboard USB controller.	Enabled Disabled
Legacy USB Support	Enables or disables support for legacy USB devices.	Enabled Disabled
USB Storage Emulation	If Auto, USB device equal or less than 2GB will be emulated as Floppy and remaining as harddrive. Forced FDD option can be used to force a HDD formatted drive to boot as FDD (Ex.ZIP drive).	Auto Floppy Hard Disk
Onboard Audio Controller	Enables or disables the onboard audio controller.	Enabled Disabled
Onboard LAN Controller	Enables or disables the onboard LAN controller.	Enabled Disabled
Onboard LAN Option ROM	Enables or disables the load of embedded option ROM for onboard network controller.	Enabled Disabled
Serial Port1/Port2 Address	Use this item to enable or disable the onboard COM1 serial port, and to assign a port address.	
Serial Port2 Mode	Use this item to select the parallel port mode. you can select Normal (Standard ParallelPort), ECP(Extended Capabilities Port) EPP (Enhanced Parallel Port), or BPP (Bi-Directional Parallel Port).	
Parallel Port Address	Use this item to enable or disable the onboard Parallel port, and to assign a portaddress.	Disabled/378/278/ 3BC
Parallel Port Mode	Use this item to select the parallel port mode. You can select Normal (StandardParallel Port), ECP (Extended Capabilities Port), EPP (Enhanced Parallel Port), orBPP (Bi-Directional Parallel Port).	Normal/EPP//ECP/ EPP+ECP
Parallel Port IRQ	Use this item to assign IRQ to the parallel port.	IRQ5 IRQ7
ECP Mode DMA Channel	Use this item to assign the DMA Channel under ECP Mode function.	

Power Management Setup



Parameter	Description	Option
ACPI Aware O/S	This item supports ACPI (Advanced Configuration and Power management Interface). Use this item to enable or disable the ACPI feature.	YES No
ACPI Suspend Mode	Select an ACPI state.	S3 (STR) S1 (POS)
Deep Power Off Mode	If Enabled, it will support EUP Lot6 Function. If Disabled, it will not support EUP Lot6 Function.	Enabled Disabled
Power On by RTC Alarm	Enables or Disables to wake up the system by RTC Alarm Function	Enabled Disabled
Power On by PCIE Devices	Enables or disables to wake up the system from a power saving mode through an event on PCI Express device.	Enabled Disabled
Power On by Modem Ring	This system can be turned off with a software command. If you enable this item, the system can automatically resume if there is an incoming call on the Modem. You must use an ATX power supply in order to use this feature.	Disabled Enabled
Wake Up by PS/2 KB/ Mouse	Enables or disables to wake up the system from a power saving mode using a PS2 keyboard or mouse.	Enabled Disabled
Wake Up by USB KB/ Mouse	If enabled, press any key or click the mouse will wake system from S1/ S3 state.	Enabled Disabled
Restore On AC Power Loss	Enables or disables the system to reboot after a power failure or interrupt occurs.	Power Off Power On Last State

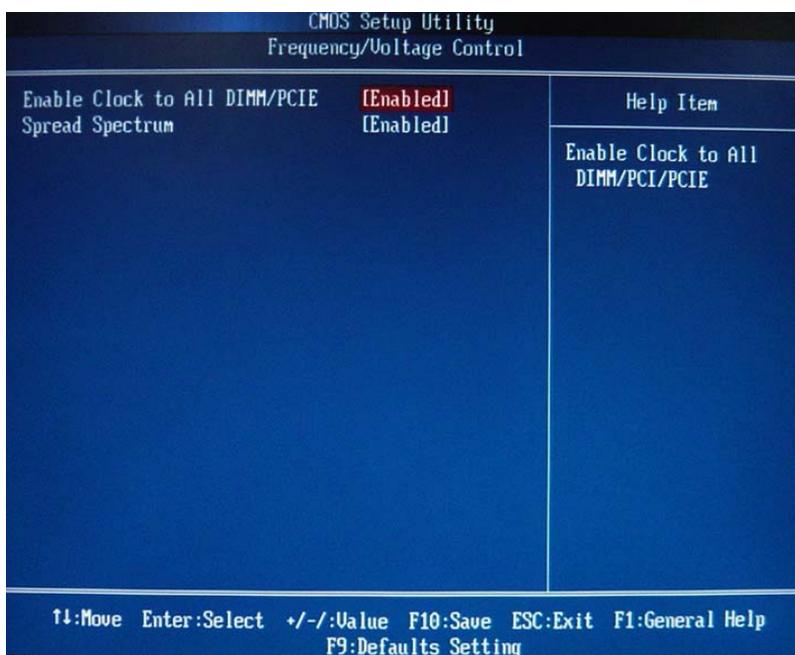
PC Health Status

PC Health Status		Help Item
CPU Temperature (PECI Mode)	:34°C/93°F	System will shutdown when System temperature higher than the item setting value
System Temperature	:39°C/102°F	
CPU Fan Speed	:1457 RPM	
System Fan Speed	:N/A	
CPU Core	:1.260 V	
+1.1V	:1.104 V	
+3.30V	:3.385 V	
+5.00V	:5.037 V	
+12.0V	:12.110 V	
+5USB	:5.058 V	
VBAT	:3.360 V	
System Shutdown Temperature	[Disabled]	
CPU Shutdown Temperature	[Disabled]	
Smart Fan	[Enabled]	

↑↓:Move Enter:Select +/-:Value F10:Save ESC:Exit F1:General Help
F9:Defaults Setting

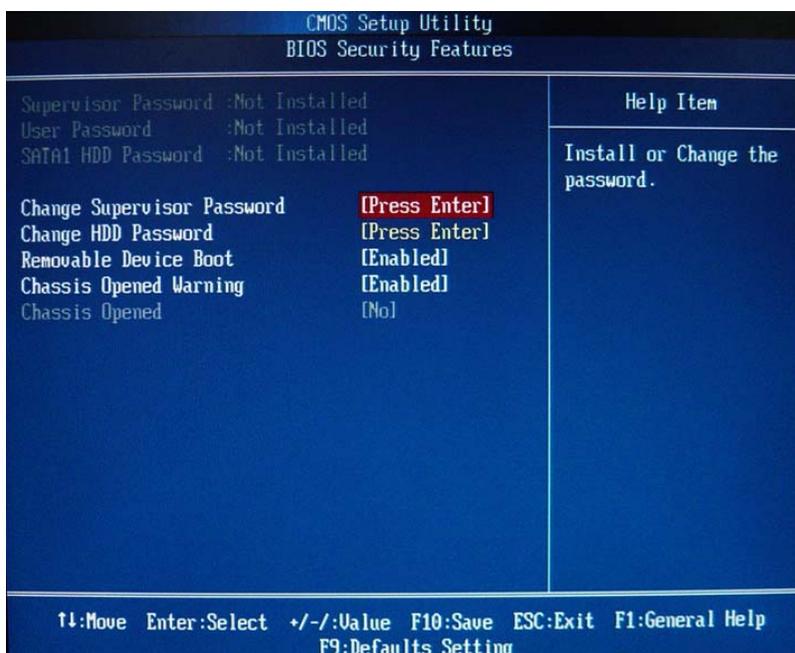
Parameter	Description	Option
System Shutdown Temperature	Enable you to set the maximum temperature the system can reach before powering down.	Disabled Enabled
CPU Shutdown Temperature	Enable you to set the maximum temperature the CPU can reach before powering down.	Disabled Enabled
Smart FAN	Enables or disables the smart system fan control function.	Enabled Disabled

Frequency/Voltage Control



Parameter	Description	Option
Enabled Clock to All DIMM/PCI/PCIE	If enabled, whatever the slot has been inserted or not, clock will be sent. Disable clock to empty DIMM/PCI/PCIE slots if option is disabled.	Disabled Enabled
Spread Spectrum	Enables or disables the reduction of the mainboard's EMI. Note: Remember to disable the Spread Spectrum feature if you are overclocking. A slight jitter can introduce a temporary boost in clock speed causing the overclocked processor to lock up.	Enabled Disabled

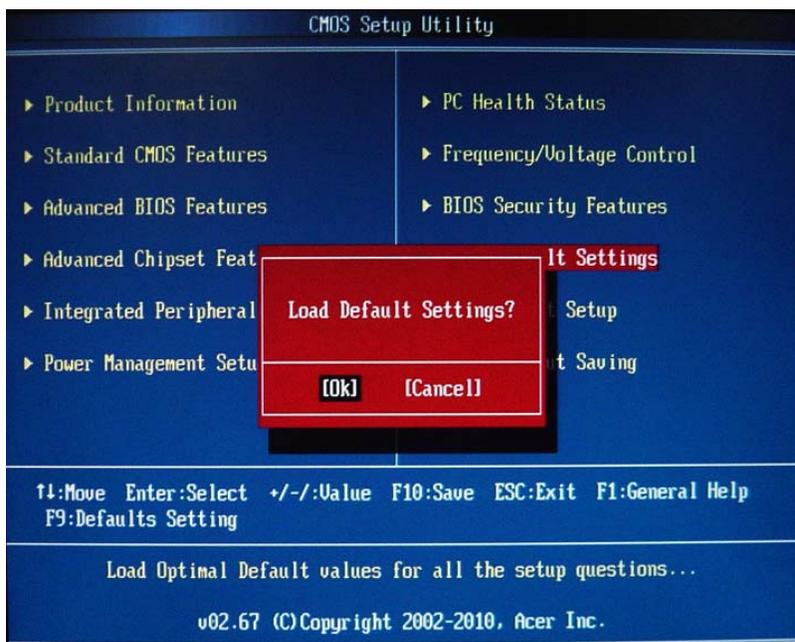
BIOS Security Features



Parameter	Description	Option
Supervisor Password	This item indicates whether a supervisor password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.	
User Password	This item indicates whether a user password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.	
HDD Password	This item indicates whether a HDD password has been set. If the password has been installed, Installed displays. If not, Not Installed displays.	
Change Supervisor Password	You can select this option and press <Enter> to access the sub menu. You can use the sub menu to change the supervisor password.	
Change HDD Password	You can select this option and press <Enter> to access the sub menu. You can use the sub menu to change the HDD password.	
Removable Device Boot	This item enables/disables the warning if the case is opened up, and the item below indicates the current status of the case.	Enabled Disabled
Chassis opening warning	This item enables/disables support the boot from USB mass storage devices.	Enabled Disabled

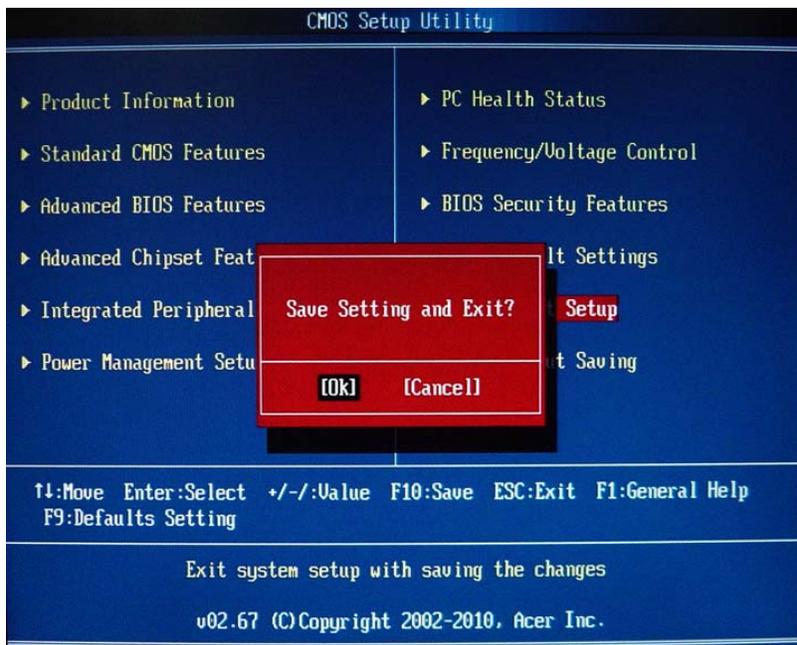
Load Default Settings

The Load Default Settings menu allows you to load the default settings for all BIOS setup parameters. Setup defaults are quite demanding in terms of resources consumption. If you are using low-speed memory chips or other kinds of low-performance components and you choose to load these settings, the system might not function properly.



Save Setting and Exit

The Save Setting and Exit menu allows you to save changes made and close the Setup Utility.



Exit Without Saving

The Discard Changes and Exit Setup menu allows you to discard changes made and close the Setup Utility.



System Disassembly

This chapter contains step-by-step procedures on how to disassemble the desktop computer for maintenance and troubleshooting.

Disassembly Requirements

To disassemble the computer, you need the following tools:

- Wrist grounding strap and conductive mat for preventing electrostatic discharge
- Flat-blade screwdriver
- Philips screwdriver
- Hex screwdriver
- Plastic flat-blade screwdriver
- Plastic tweezers

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

Pre-disassembly Procedure

Before proceeding with the disassembly procedure, perform the steps listed below:

1. Turn off the system and all the peripherals connected to it.
2. Unplug the power cord from the power outlets.
3. Unplug the power cord from the system.
4. Unplug all peripheral cables from the system.
5. Place the system unit on a flat, stable surface.

Removing the Side Panel

1. Remove the two screws located on the rear edge of the side panel.



2. The firstly use two fingers to Press the lock handle toward the arrowhead of the direction until the lock handle no moving,then use other hand to Lift the side panel away from the chassis and put it aside.

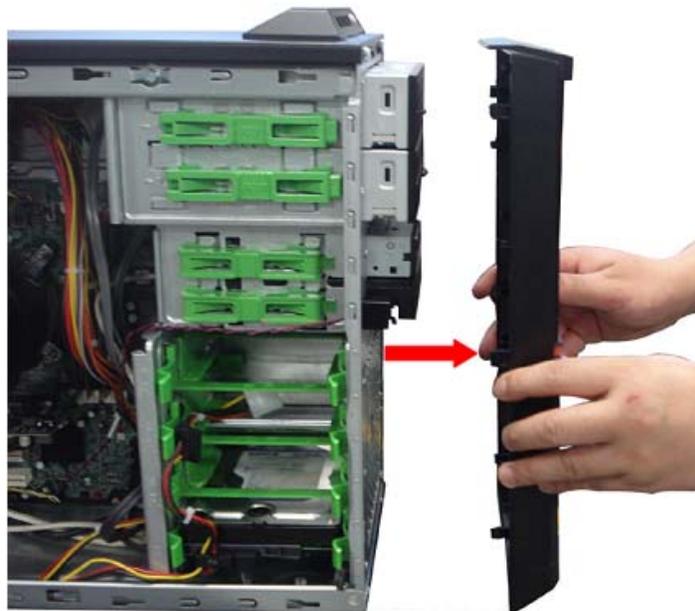


Removing the Front Bezel

1. Remove the side panel. Refer to the previous section for instructions.
2. Release the front bezel from the chassis interior.



3. Pull the bezel away from the chassis.



Removing the Heat Sink Fan Assembly

WARNING: The heat sink becomes very hot when the system is on. NEVER touch the heat sink with any metal or with your hands.

1. disconnect the fan cable from the mainboard.



2. Use a long-nosed screwdriver to loosen the four screws on the heat sink, in the order as shown below.



3. Lift the heat sink fan assembly away from the mainboard.

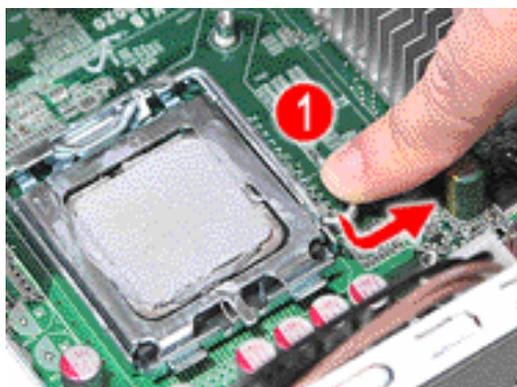


4. Remove the heat sink fan assembly from the chassis then lay it down in an upright position—with the thermal patch facing upward. Do not let the thermal patch on the heat sink fan assembly touch the work surface.
5. Use an alcohol pad to wipe off the thermal grease from both the heat sink and the processor.

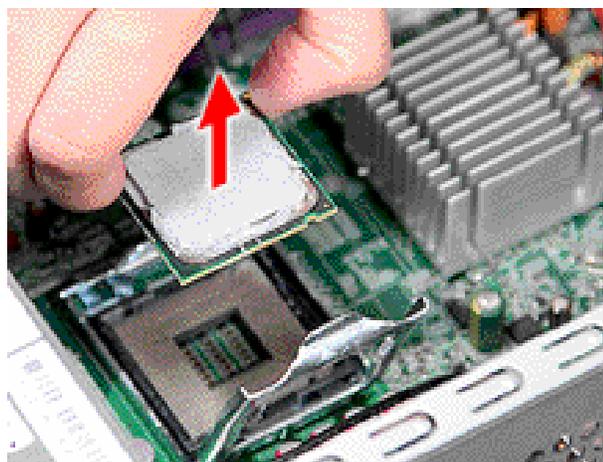
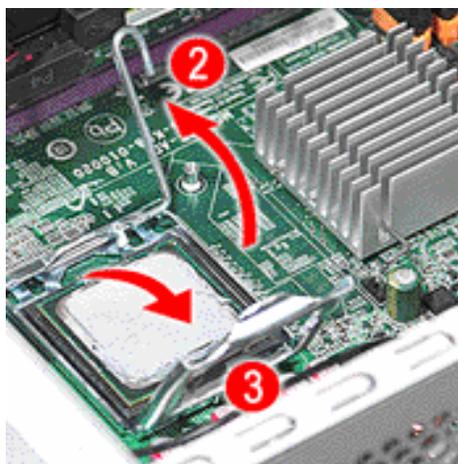
Removing the Processor

IMPORTANT: Before removing a processor from the mainboard, make sure to create a backup file of all important data.

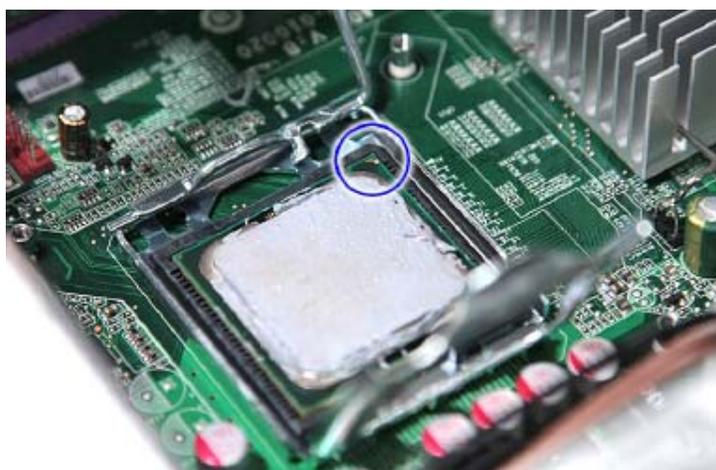
1. The processor becomes very hot when the system is on. Allow it to cool off first before handling. Release the load lever (1).



2. Pull the load lever to the fully open, upright position (2) and lift the load plate (3).
3. Pull out the processor from the socket.



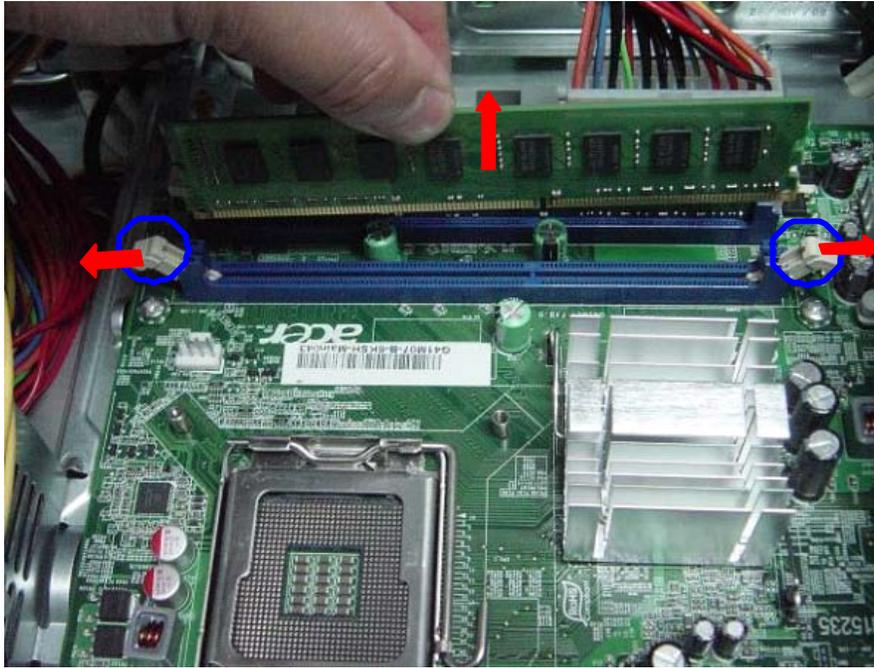
IMPORTANT: If you are going to install a new processor, note the arrow on the corner to make sure the processor is properly oriented over the socket.



Removing the Memory Modules

IMPORTANT: Before removing any DIMM from the memory board, make sure to create a backup file of all important data.

1. Press the holding clips on both sides of the DIMM slot outward to release the DIMM(1).
2. Gently pull the DIMM upward to pull it away from the M/B(2).



Removing the VGA Card

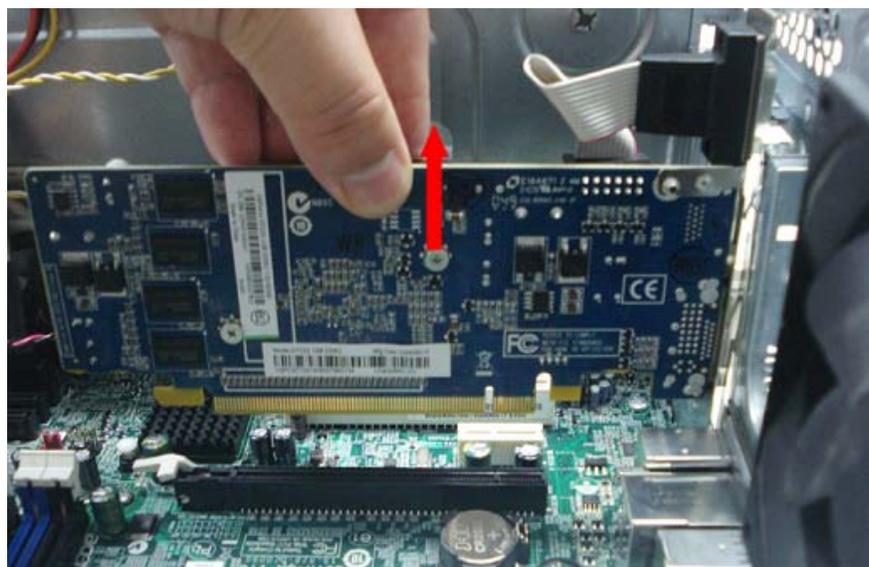
1. Remove the screw that secures the card to the chassis.



2. Use One finger to Press the clip.

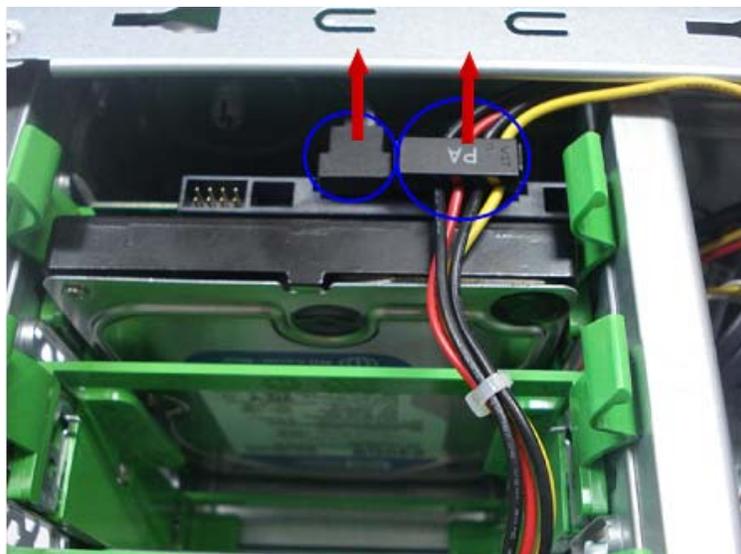


3. Gently pull the card to remove it from the mainboard.



Removing the Hard Disk Drive

1. Disconnect the data and power cables from the rear of the optical drive.



2. Disconnect the other end of the data cable from the mainboard.



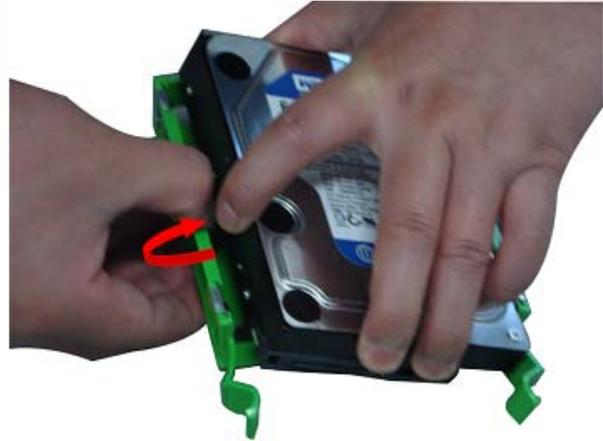
3. Remove the HDD bracket.

- a. Use two fingers to press the HDD bracket then lift the bracket up.



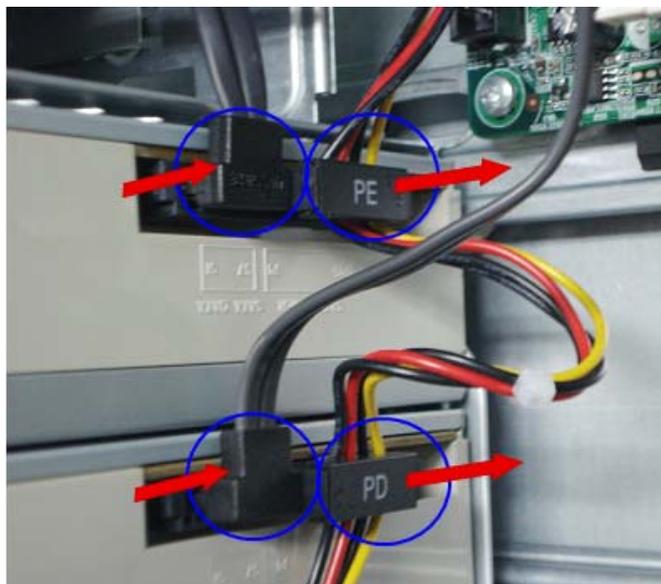
4. Take out the HDD module

- a. Use a hand to open out the HDD bracket until the hook of HDD bracket away from the HDD screw bore. then use other hand to take out the HDD module.

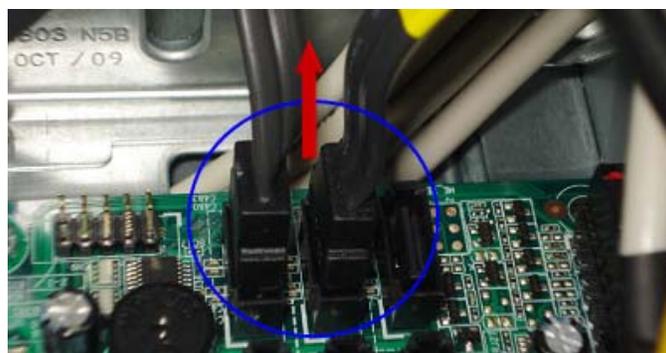


Removing the Optical Drive

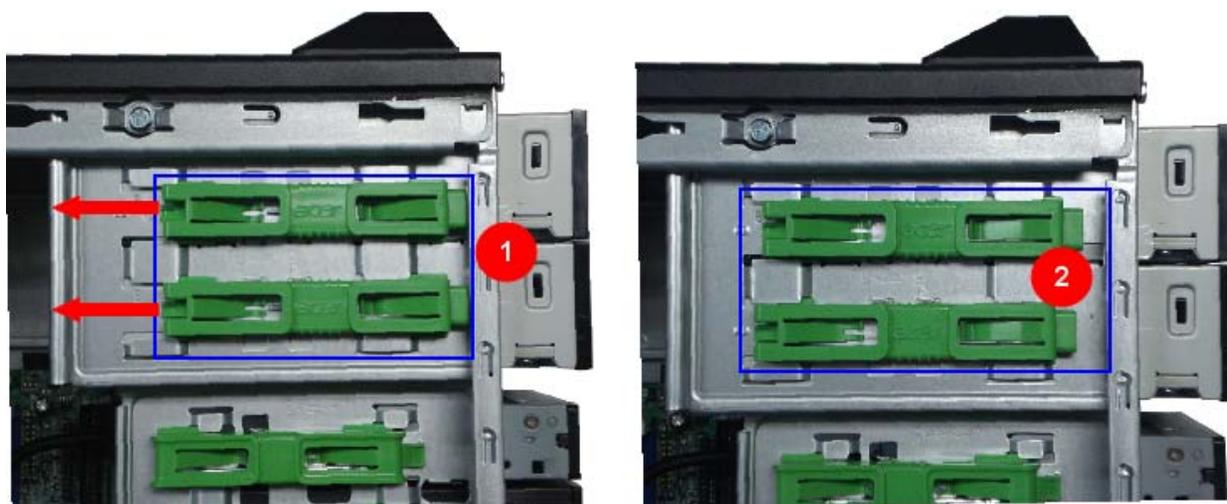
1. Disconnect the data and power cables from the rear of the optical drive.



2. Disconnect the other end of the data cable from the mainboard.



3. Slide two lock handle toward the left(1) until the lock handle no removing(2).



-
4. Push the rear of the optical drive. take out the slave ODD.

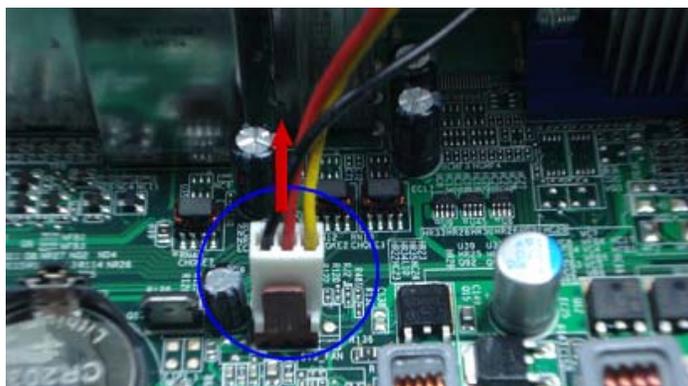


5. Use the same method to take out master ODD.

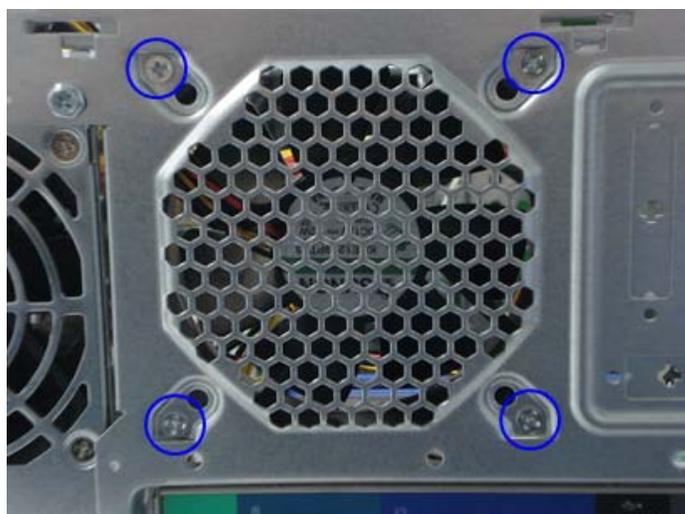


Remove System FAN

1. Remove System FAN cable from M/B.



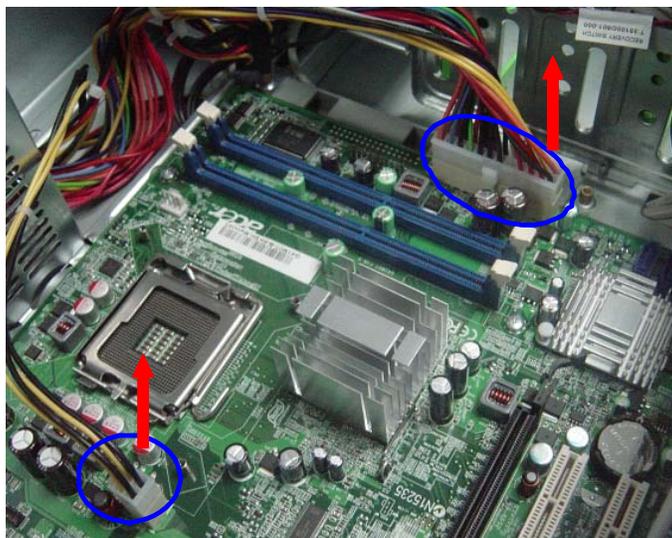
2. Release four screws according to the following picture.



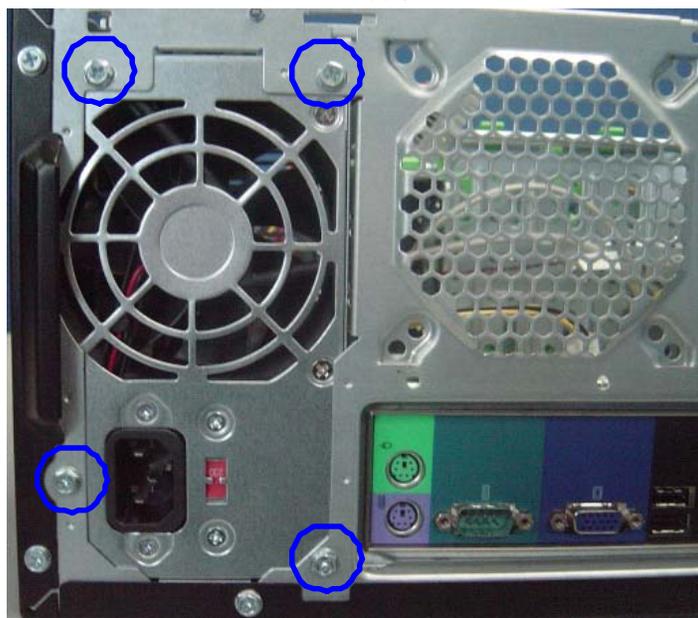
3. Take off the system fan from chassis.

Removing the Power Supply

1. Disconnect the 4-pin and 24-pin power supply cables from the mainboard.



2. Remove the four screws that secure the power supply to the chassis.

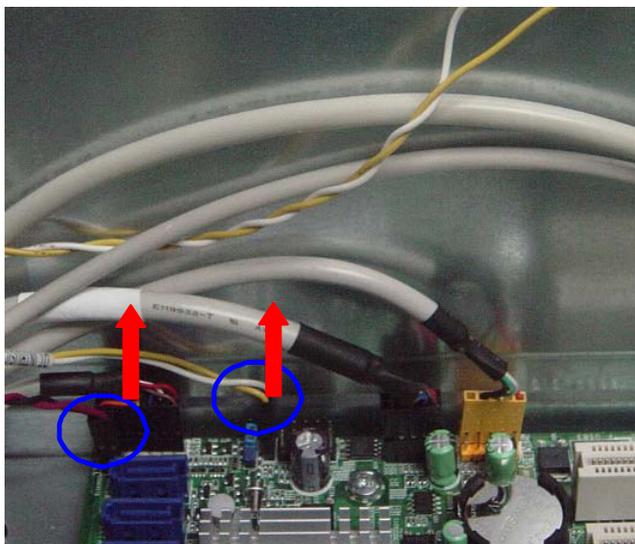


3. Lift the power supply module out of the chassis.

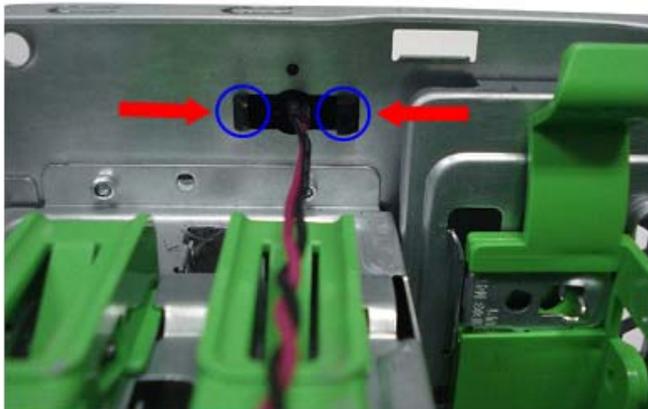


Removing the OBR and Intrusion Alarm Assembly

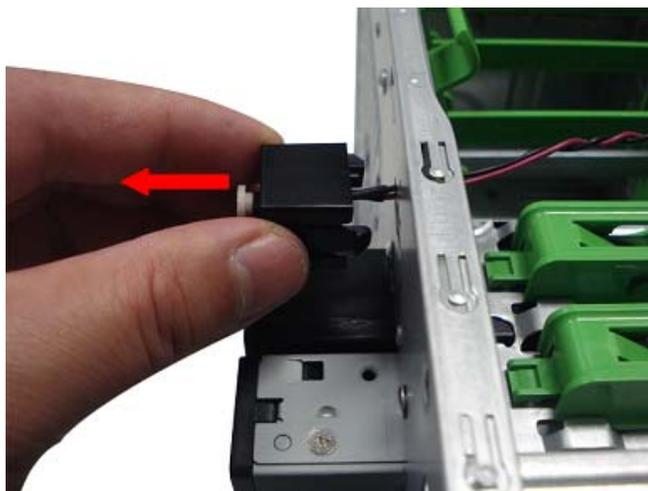
1. Disconnect the OBR cable and intrusion alarm from the motherboard.



2. Release the retention tabs from the chassis interior.



3. Pull the OBR assembly from the chassis.

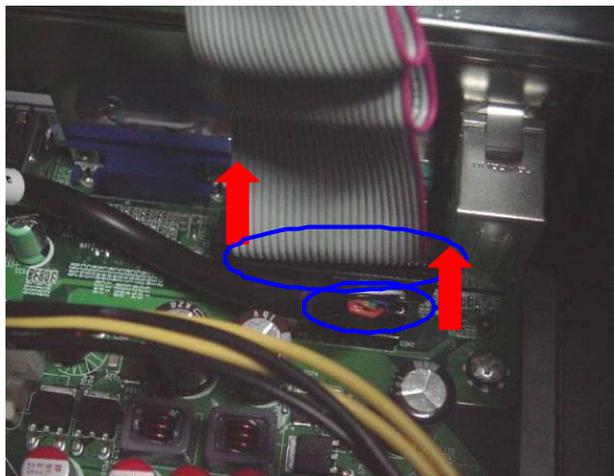


4. Removing the two screws, then take out the intrusion alarm assembly.



Removing COM / Printer Cable

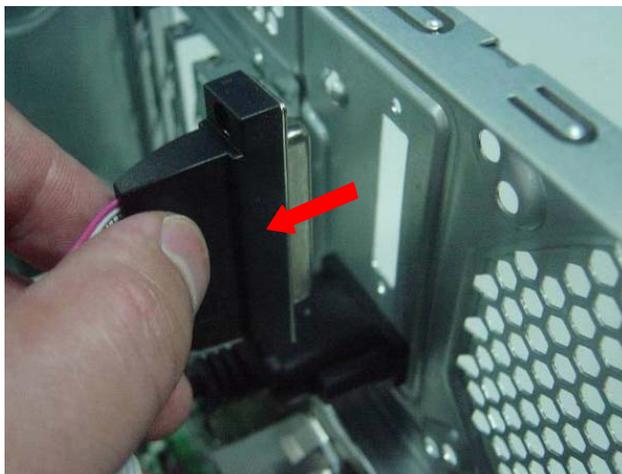
1. Disconnect the COM / Printer Cable from motherboard.



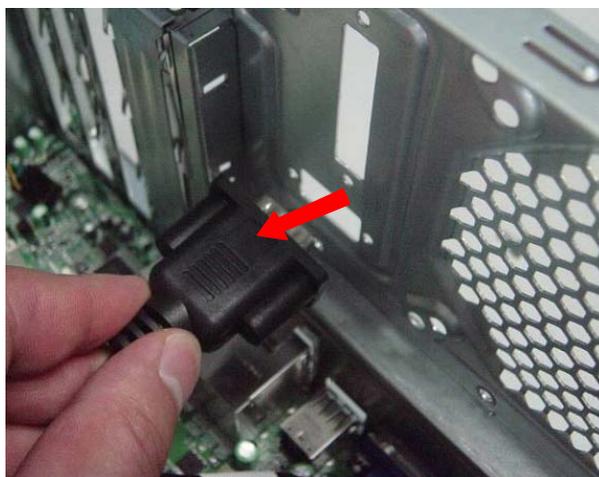
2. Removing the screws.



-
3. Take out the printer port from chassis.

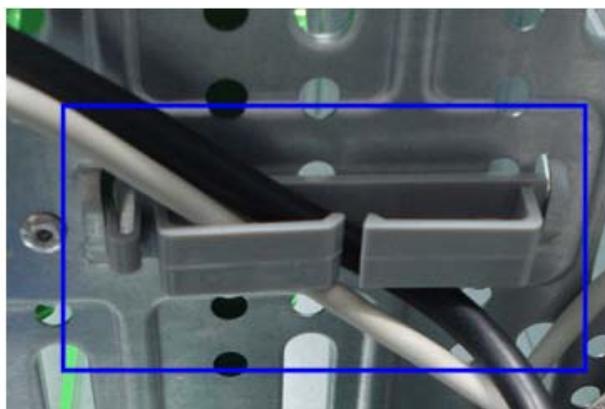
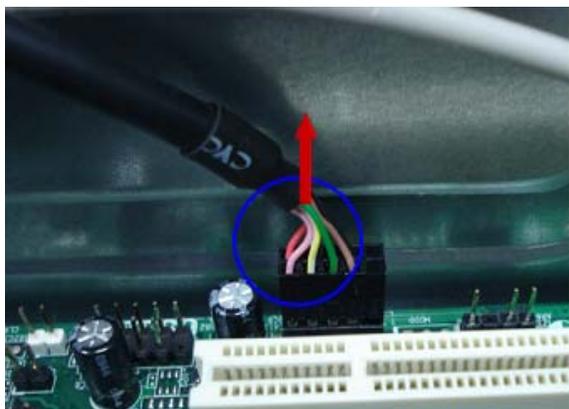


4. Take out the COM port from chassis.

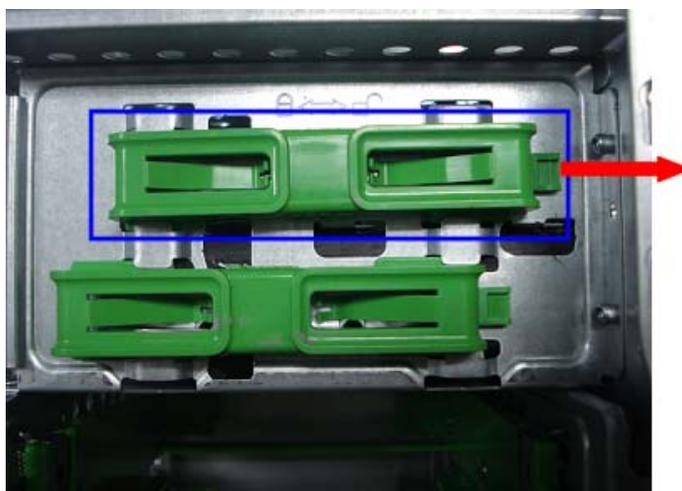


Removing the Card Reader

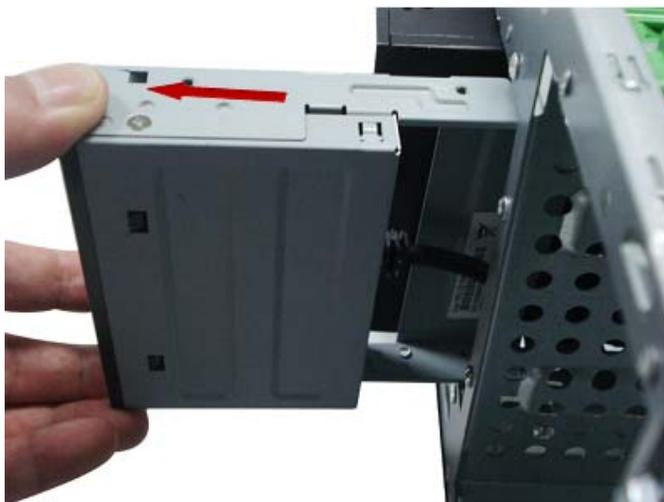
1. Disconnect the card reader cable from the motherboard, then release the cable from the clip.



2. Slide the lock handle as show below.



3. Pull the card reader away from the bracket.



Removing the Internal Speaker

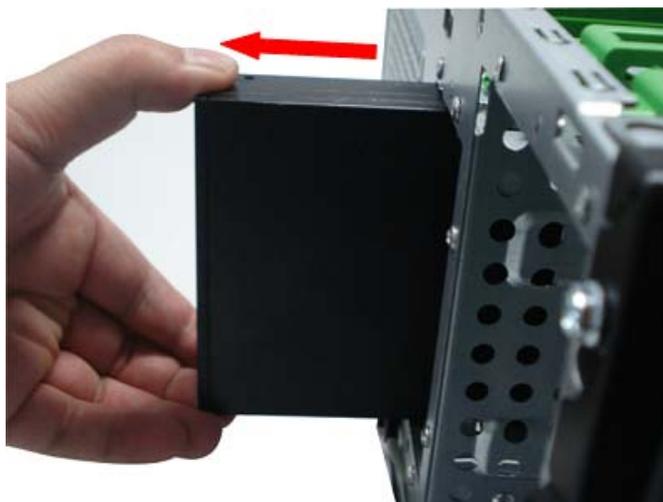
1. Disconnect the speaker cable from the motherboard, then release the cable from the clip



2. Slide the lock handle as show below.

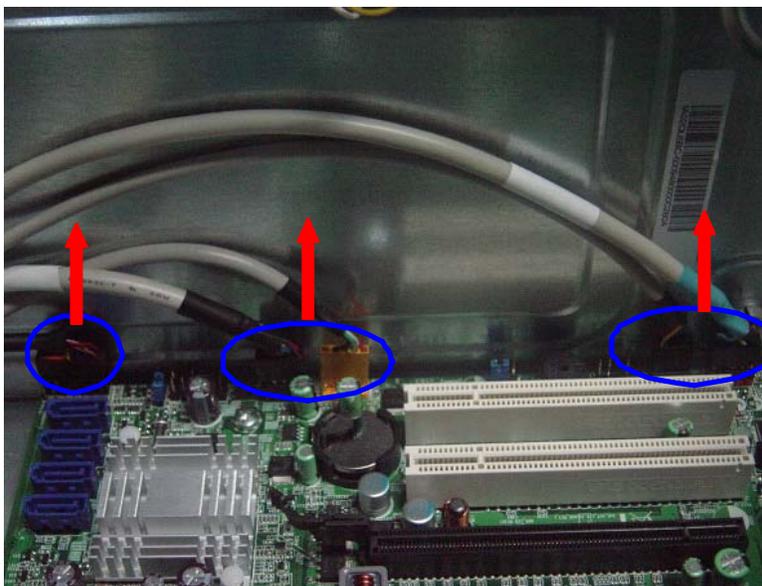


3. Pull the internal speaker away from bracket.

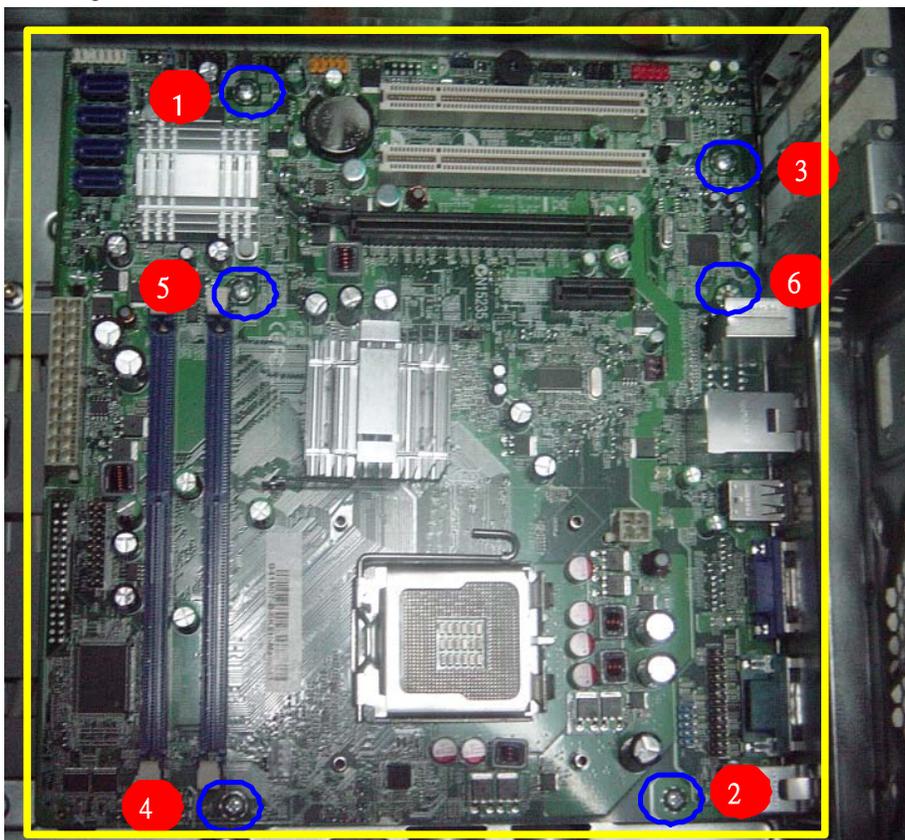


Removing the Mainboard

1. Disconnect the power switch/LED/Audio/ USB cable from the mainboard.



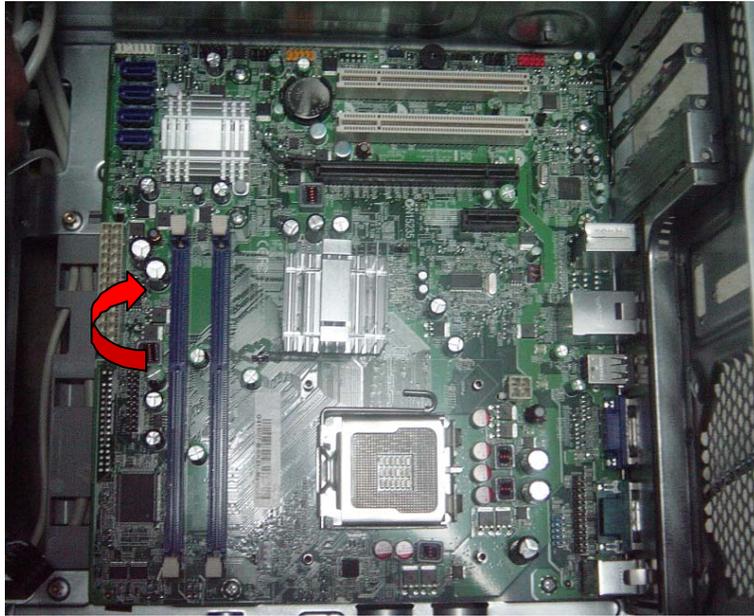
2. Remove the eight screws that secure the mainboard to the chassis.



Note: Circuit boards >10 cm² has been highlighted with the yellow rectangle as above image shows.

Please detach the Circuit boards and follow local regulations for disposal.

3. Lift the board from the chassis.



4. Punching in IO Shield then you can remove it.



5. Remove the RTC battery.



Note: RTC battery has been highlighted with the yellow circle as above image shows. Please detach the RTC battery and follow local regulations for disposal.

Removing Other Side Panel

1. Remove the two screws located on the rear edge of the side panel.

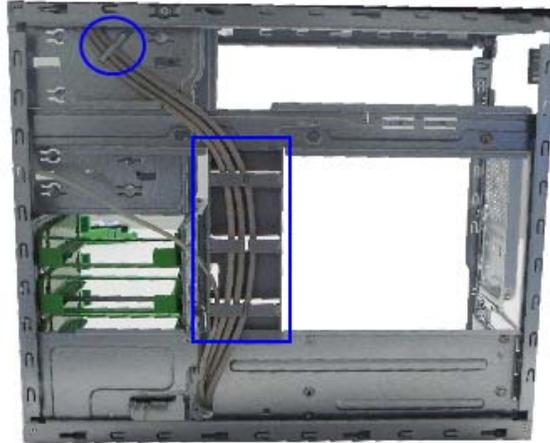


2. Lift the side panel away from the server.

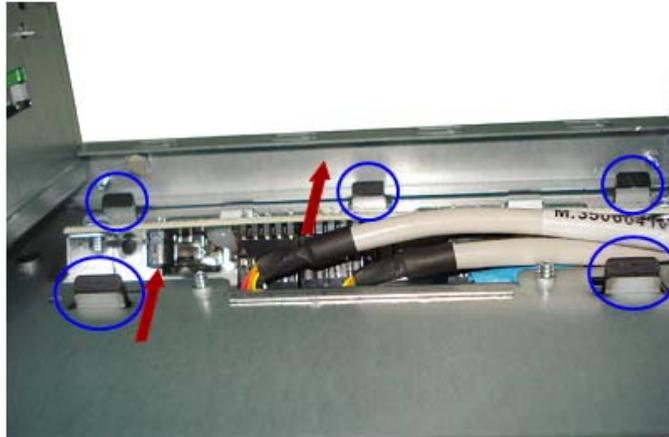


Removing the Front I/O and USB Assembly

1. Release the cable from clip.



2. Release the five locking tabs from the chassis interior.



3. Lift the front I/O and USB cover from the chassis.



-
4. Removing the screws from the chassis.

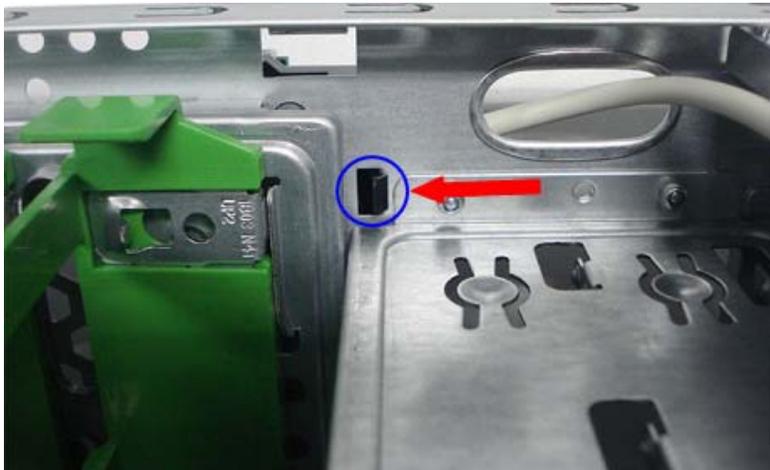


5. Lift the front I/O and USB assembly away from chassis.

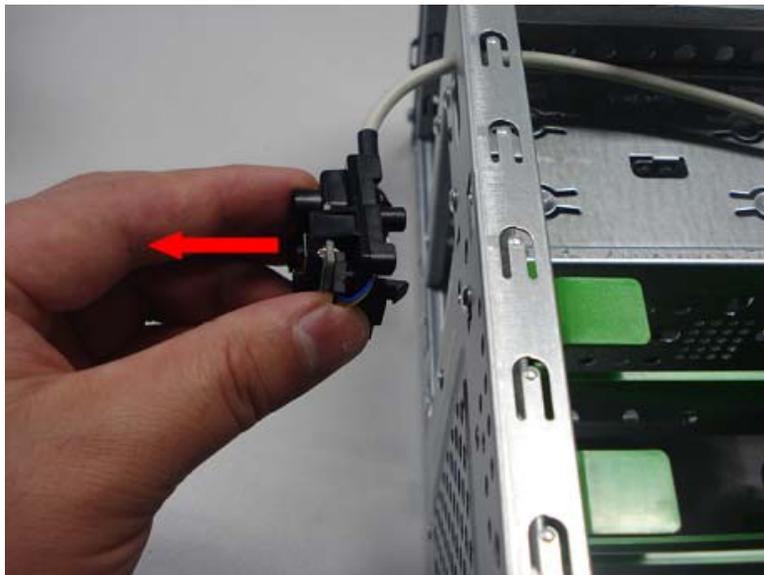


Removing the Power Switch and LED Cable Assembly

1. Release the locking tabs from the chassis interior.



2. Pull the power switch and LED cable assembly from the chassis.



System Troubleshooting

This chapter provides instructions on how to troubleshoot system hardware problems.

Hardware Diagnostic Procedure

IMPORTANT: The diagnostic tests described in this chapter are only intended to test Acer products. Non-Acer products, prototype cards, or modified options can give false errors and invalid system responses.

1. Obtain the failing symptoms in as much detail as possible.
2. Verify the symptoms by attempting to recreate the failure by running the diagnostic tests or repeating the same operation.
3. Refer to “Power System check” and “Beep Codes” to determine which corrective action to perform.

System Check Procedures

Power System Check

If the system will power on, skip this section. Refer to System External Inspection.

If the system will not power on, do the following:

- Check if the power cable is properly connected to the system and AC source.
- Check if the voltage selector switch is set to the correct voltage setting.

System External Inspection

1. Inspect the LED indicators on the front panel, which can indicate the malfunction.
2. Make sure that air flow is not blocked.
3. Make sure nothing in the system is making contact that could short out power.
4. If the problem is not evident, continue with System Internal Inspection.

System Internal Inspection

1. Turn off the system and all the peripherals connected to it.
2. Unplug the power cord from the power outlets.
3. Unplug the power cord from the system.
4. Unplug all peripheral cables from the system.
5. Place the system unit on a flat, stable surface.
6. Remove the system covers. For instructions on removing system covers, refer to "System Disassembly" on page 27.
7. Verify that components are properly seated.
8. Verify that all cable connectors inside the system are firmly and correctly attached to their appropriate connectors.
9. Verify that all components are Acer-qualified and supported.
10. Replace the system covers.
11. Power on the system.
12. If the problem with the system is not evident, you can try viewing the POST messages and BIOS event logs during the system startup.

Beep Codes

Beep codes are used by the BIOS to indicate a serious or fatal error to the end user. Beep codes are used when an error occurs before the system video has been initialized. Beep codes will be generated by the system board speaker, commonly referred to as the PC speaker.

AMIBIOS displays the checkpoints in the bottom right corner of the screen during POST. This display method is limited, since it only displays checkpoints that occur after the video card has been activated.

Not all computers using AMIBIOS enable this feature. In most cases, a checkpoint card is the best tool for viewing AMIBIOS checkpoints.

Beep Symptom	Cause and Description
One short beep	System is ready. System is OK.
Continuous one long beep	Memory not installed or memory error.
One long beep and two short beeps then repeat.	VGA not installed or VGA error. Graphics card error/not installed, graphics card memory error or graphics card BIOS checksum error.
One long beep then two short beep	BIOS damaged. BIOS is damaged, BIOS POST jumps to Boot Block to execute the default procedures.
Two short beeps	CMOS damaged. CMOS checksum error or CMOS battery loss occurs.

Checkpoints

A checkpoint is either a byte or word value output to I/O port 80h. The BIOS outputs checkpoints throughout bootblock and Power-On Self Test (POST) to indicate the task the system is currently executing. Checkpoints are very useful in aiding software developers or technicians in debugging problems that occur during the pre-boot process.

Viewing BIOS checkpoints

Viewing all checkpoints generated by the BIOS requires a checkpoint card, also referred to as a POST card or POST diagnostic card. These are ISA or PCI add-in cards that show the value of I/O port 80h on a LED display. Checkpoints may appear on the bottom right corner of the screen during POST. This display method is limited, since it only displays checkpoints that occur after the video card has been activated.

Bootblock Initialization Code Checkpoints

The Bootblock initialization code sets up the chipset, memory, and other components before system memory is available. The following table describes the type of checkpoints that may occur during the bootblock initialization portion of the BIOS.

NOTE: Please note that checkpoints may differ between different platforms based on system configuration. Checkpoints may change due to vendor requirements, system chipset or option ROMs from add-in PCI devices.

Checkpoint	Description
Before D1	Early chipset initialization is done. Early super I/O initialization is done including RTC and keyboard controller. NMI is disabled.
D0	Go to flat mode with 4GB limit and GA20 enabled. Verify the bootblock checksum.
D1	Perform keyboard controller BAT test. Check if waking up from power management suspend state. Save power-on CPUID value in scratch CMOS.
D2	Disable CACHE before memory detection. Execute full memory sizing module. Verify that flat mode is enabled.
D3	If memory sizing module not executed, start memory refresh and do memory sizing in Bootblock code. Do additional chipset initialization. Re-enable CACHE. Verify that flat mode is enabled.
D4	Test base 512KB memory. Adjust policies and cache first 8MB. Set stack.
D5	Bootblock code is copied from ROM to lower system memory and control is given to it. BIOS now executes out of RAM.
D6	Both key sequence and OEM specific method is checked to determine if BIOS recovery is forced. Main BIOS checksum is tested. If BIOS recovery is necessary, control flows to checkpoint E0. See Bootblock Recovery Code Checkpoints section for more information.
D7	Restore CPUID value back into register. The Bootblock-Runtime interface module is moved to system memory and control is given to it. Determine whether to execute serial flash.
D8	The Runtime module is uncompressed into memory. CPUID information is stored in memory.
D9	Store the Uncompressed pointer for future use in PMM. Copying Main BIOS into memory. Leaves all RAM below 1MB Read-Write including E000 and F000 shadow areas but closing SMRAM.
DA	Restore CPUID value back into register. Give control to BIOS POST (Execute POST Kernel). See POST Code Checkpoints section of document for more information.

Bootblock Recovery Code Checkpoints

The Bootblock recovery code gets control when the BIOS determines that a BIOS recovery needs to occur because the user has forced the update or the BIOS checksum is corrupt. The following table describes the type of checkpoints that may occur during the Bootblock recovery portion of the BIOS.

NOTE: Checkpoints may differ between different platforms based on system configuration. Checkpoints may change due to vendor requirements, system chipset or option ROMs from add-in PCI devices.

Checkpoint	Description
E0	Initialize the floppy controller in the super I/O. Some interrupt vectors are initialized. DMA controller is initialized. 8259 interrupt controller is initialized. L1 cache is enabled.
E9	Set up floppy controller and data. Attempt to read from floppy.
EA	Enable ATAPI hardware. Attempt to read from ARMD and ATAPI CDROM.
EB	Disable ATAPI hardware. Jump back to checkpoint E9.
EF	Read error occurred on media. Jump back to checkpoint EB.
F0	Search for pre-defined recovery file name in root directory.
F1	Recovery file not found.
F2	Start reading FAT table and analyze FAT to find the clusters occupied by the recovery file.
F3	Start reading the recovery file cluster by cluster.
F5	Disable L1 cache.
FA	Check the validity of the recovery file configuration to the current configuration of the flash part.
FB	Make flash write enabled through chipset and OEM specific method. Detect proper flash part. Verify that the found flash part size equals the recovery file size.
F4	The recovery file size does not equal the found flash part size.
FC	Erase the flash part
FD	Program the flash part.
FF	The flash has been updated successfully. Make flash write disabled. Disable ATAPI hardware. Restore CPUID value back into register. Give control to F000 ROM at F000:FFF0h.

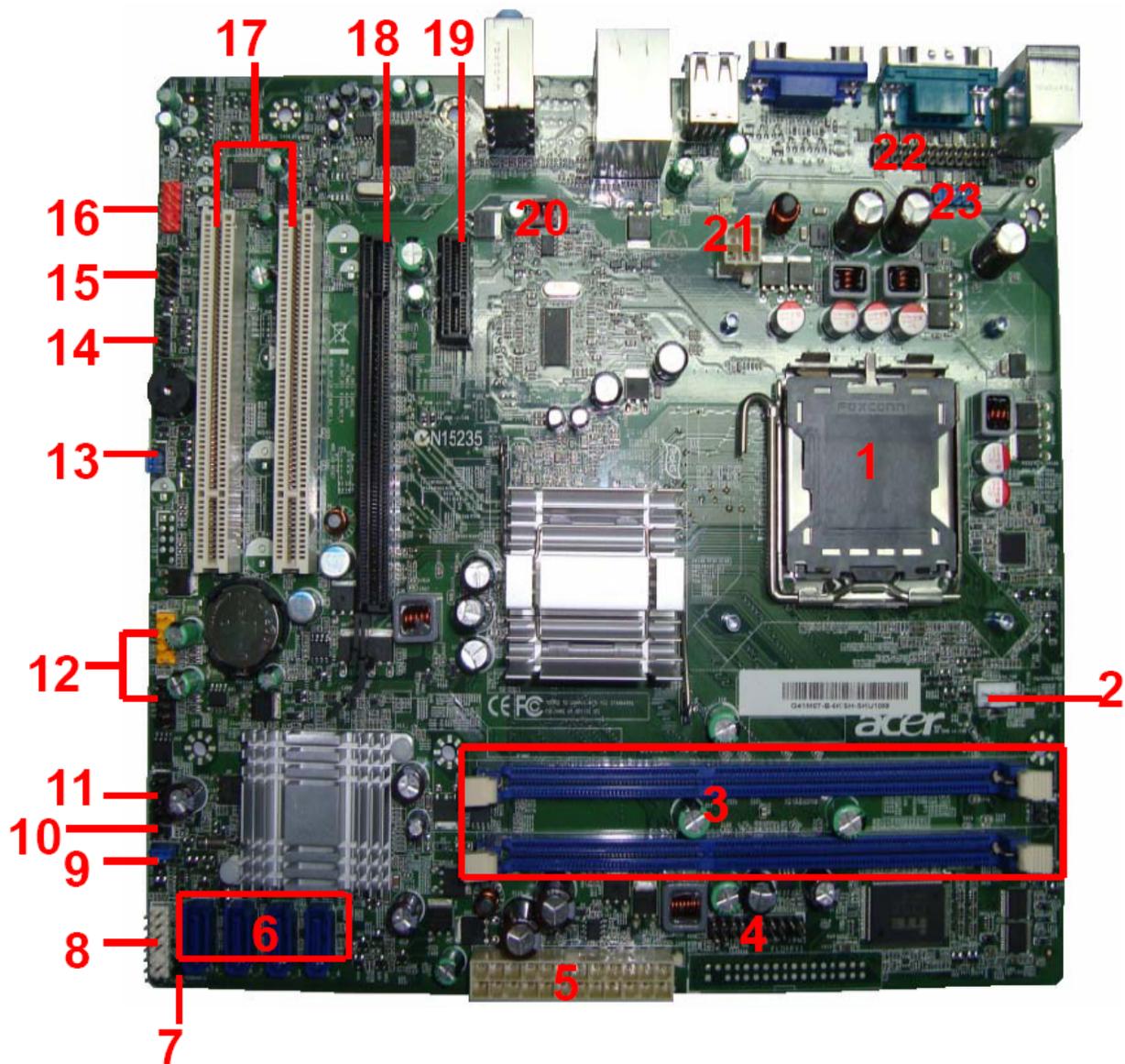
BIOS Recovery

1. Copy the target BIOS rom file to a USB disk. Rename the target BIOS to "amiboot.rom" Plug the USB disk to computer that you want to recovery the system BIOS.
2. Power on the system, BIOS recovery will be done. Wait for about 3 minutes the system will reboot automatically after flash update completed successfully.
3. Press "Del" Key to enter BIOS Setup.
4. Choose " Load Default Settings " and press " Enter " key.
4-1.Choose " OK " and press "Enter " key.
5. Choose "Save & Exit Setup " and press "Enter" key.
5-1.Choose " OK " and press "Enter " key.

AMIBIOS Recovery is finished.

Jumper and Connector Information

M/B Placement



No	Label	Description	No	Label	Description
1	CPU Socket	LGA775 socket for CPU	2	CPU_FAN	CPU fan power header
3	DIMM	CONN,DIMM,DDR III,1.5V,V/T,Blu,15u,G,DIP-240	4	TPM1	Trusted platform module interface header
5	PWR2	M/B main power connector	6	SATA1~4	SATA data transfer connectors
7	OBR	One button recovery header	8	F_PANEL	Front panel switch/LED
9	BIOS_WP	BIOS write protect header	10	C_INTRUSION	Chassis intrusion alarm header
11	SPI	SPI header	12	F_USB1~2	Front panel USB headers
13	CLR_CMOS	Clear CMOS jumpers	14	SPDIF_OUT	SPDIF out header
15	INT_SPK	Internal speaker header	16	F_AUDIO	Front panel audio header
17	PCI	PCI sockets	18	PCI-E1_16X1	PCI-E1_16X1 socket
19	PCI-EI_1X1	PCI-EI_1X1 socket	20	SYS_FAN	SYS fan header
21	PWR1	CPU Power connector	22	PRINTER	Printer header
23	COM2	COM Header	24		

Jumper Setting

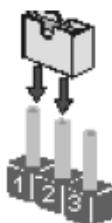
The section explains how to set jumper for correct configuration of the mainboard.

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.

The illustrations show a 2-pin jumper. When the jumper cap is placed on both pins, the jumper is SHORT. If you re-move the jumper cap, or place the jumper cap on just one pin, the jumper is OPEN.



This illustration shows a 3-pin jumper. Pins 1 and 2 are SHORT.

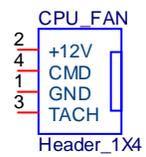


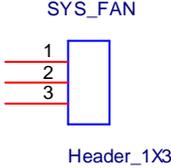
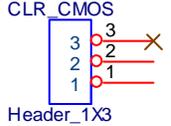
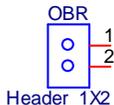
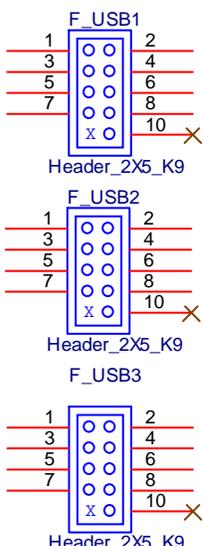
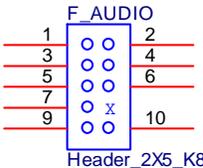
Setting Jumper

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.

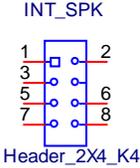
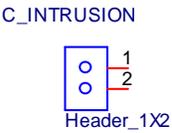
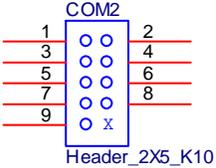
Jumper	Type	Description	Setting (default)	
CLR_CMOS1	3-pin	Clear CMOS	1-2: NORMAL 2-3: CLEAR Before clearing the CMOS, make sure to turn off the system.	 1 CLR_CMOS1

System Board Pin Definition

Jumper/Header Name	Function	Definition
CPU_FAN(4 PIN)		
 <p>CPU_FAN 2 +12V 4 CMD 1 GND 3 TACH Header_1X4</p>	CPU FAN HEADER	1: GND
		2: POWER
		3: SENSE
		4: CONTROL

Jumper/Header Name	Function	Definition
SYS_FAN(3 PIN)		
	SYSTEM FAN HEADER	1: GND
		2: CONTROL
		3: SENSE
CLR_CMOS(3 PIN)		
	CLEAR CMOS HEADER	1-2: CLEAR_CMOS (2: RTC_RSTJ)
		2-3: NORMAL (3: VCC_RTC)
OBR		
	OBR HEADER	1: OBR
		2: GND
F_USB1, F_USB2, F_USB3		
	USB HEADER (2X5)	1. VCC
		2. VCC
		3. D1-
		4. D0-
		5. D1+
		6. D0+
		7. GND
		8. GND
		9. KEY
		10. NC
F_AUDIO		
	FRONT PANEL AUDIO HEADER (2X5)	1: FMIC_L
		2: AGND
		3: FMIC_R
		4: Audio_PRESENCE_L

Jumper/Header Name	Function	Definition
		5: LINE_OUT_R
		6: MIC2_JD
		7: AGND
		8: KEY
		9: LINE_OUT_L
		10:LINE2_JD
F_PANEL	Front panel header	1: FP_1(PU 5V_S0)
		2: LEDP(PU 5V_S5)
		3: SATA_LED_L
		4: PMSLED(PU 5V_S5)
		5: GND
		6: SWITCH_ON*
		7: FP_RESET*_FP
		8: GND
		9: FP_9(PU 5V_S0)
		10: KEY
		11: NC
		12: FP_12(PU 5V_S0)
		13: NC
		14: FP_LANLED
<p>F_PANEL</p> <p>Header_2X7_10</p>		
	TPM Header	1: LCLK
		2: GND
		3: LFRAMEn
		4: KEY
		5: LRESETn
		6: NC
		7: LAD3
		8: LAD2
		9: VDD(3.3V)
		10: LAD1
		11: LAD0
		12: GND
		13: NC
<p>TPM</p> <p>Header_2X10_4 (TPM) @Veriton</p>		

Jumper/Header Name	Function	Definition
		14: NC
		15: NC
		16: SERIRQ
		17: GND
		18: CLKRUNin
		19: LPCPDn
		20: NC
Internal speaker header		
 <p>INT_SPK Header_2X4_K4</p>	Audio internal speaker header	1: MONO_L
		2: GND
		3: MONO_R
		4: KEY
		5: GND
		6: GND
		7: VCC3
		8: VCC5
Intruder header		
 <p>C_INTRUSION Header_1X2</p>	Intruder header	1: INTRUDERJ
		2: GND
COM2		
 <p>COM2 Header_2X5_K10</p>	COM2 HEADER (2X5)	1: NDCDB
		2: NSINB
		3: NSOUTB
		4: NDTRB
		5: GND
		6: NDSRB
		7: NRTSB
		8: NCTSB
		9: NRIB
		10:KEY

Jumper/Header Name	Function	Definition
SPDIF header		
	SPDIF header	1:VCC
		3: SPDIF OUT
		4:GND
PRINTER		
	LPT1 HEADER (2X13)	1: STRBJ 2:AFDJ
		3: PRP_D0 4:PRERRJ
		5: PRP_D1 6:INITJA
		7: PRP_D2 8:SLINJ
		9: PRP_D3 10:GND
		11: PRP_D4 12:GND
		13: PRP_D5 14:GND
		15: PRP_D6 16:GND
		17: PRP_D7 18:GND
		19: PACKJ 20:GND
		21: PBUSY 22:GND
		23: PE 24:GND
		25: PSLCT 26:NC

NIC_USB1

Jumper/Header Name	Pin Number	Signal Name
<p>NIC_USB1</p>	1, 5	LANUSBPWR
	2	USB6N_C
	3	USB6P_C
	4, 8	GND
	6	USB7N_C
	7	USB7P_C
	23,24	Ground
	25,26	
	27,28	
	29,30	
	9	Bypass to GND.
	10	MDI0+
	11	MDI0-
	12	MDI1+
	13	MDI1-
	14	MDI2+
	15	MDI2-
	16	MDI3+
	17	MDI3-
	18	GND
	19	LAN_LED
	20	PU to 3.3V
21	LED_100#	
22	LED_1000#	

Audio(Vertical)

Jumper/Header Name	Pin Number	Signal Name
	31	GND
	32	A_LINE1_L
	33	A_LINE1_JD
	34	GND
	35	A_LINE1_R
	Pin	Signal Name
	21	GND
	22	A_LOUT_L
	23	A_LOUT_JD
	24	GND
	25	A_LOUT_R
	Pin	Signal Name
	1	GND
	2	A_MIC1_L
	3	A_MIC1-JD
	4	GND
	5	A_MIC1_R

SATA

Jumper/Header Name	Pin Number	Signal Name
	1	GND
	2	SATA_TXP0_C
	3	SATA_TXN0_C
	4	GND
	5	SATA_RXN0_C
	6	SATA_RXP0_C
	7	GND
	8	GND
	9	GND

VGA

Jumper/Header Name	Pin Number	Signal Name
	1	L_RED
	2	L_GREEN
	3	L_BLUE
	4	NC
	5	GND
	6	GND
	7	GND
	8	GND
	9	5V_VGA
	10	GND
	11	GND
	12	5V_DDCA_DATA
	13	3V_HSYNC
	14	3V_VSYNC
	15	5V_DDCA_CLK

COM1

Jumper/Header Name	Pin Number	Signal Name
	1	JDCDJ
	2	JSIN
	3	JSOUT
	4	JDTR
	5	GND
	6	JDSR
	7	JRTS
	8	JCTS
	9	JRIJ
	10	GND
	11	GND

FRU (Field Replaceable Unit) List

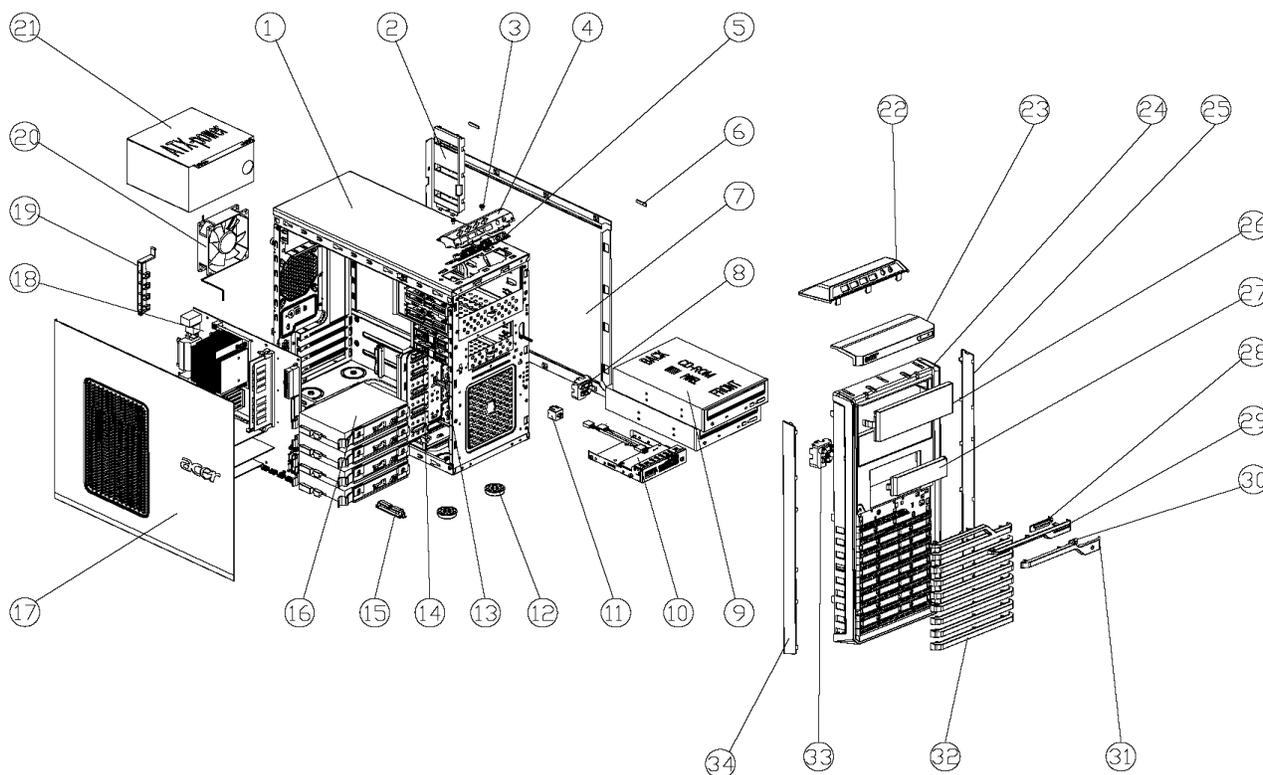
This chapter offers the FRU (Field Replaceable Unit) list in global configuration of the Veriton M275 desktop computer. Refer to this chapter whenever ordering the parts to repair or for RMA (Return Merchandise Authorization).

NOTES:

- When ordering FRU parts, check the most up-to-date information available on your regional web or channel. For whatever reasons a part number is changed, it will NOT be noted on the printed Service Guide. For Acer authorized service providers, your Acer office may have a different part number code from 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 service.
- To scrap or to return the defective parts, follow the local government ordinance or regulations on how to dispose it properly, or follow the rules set by your regional Acer office on how to return it.
- This document will be updated as more information about the FRU list becomes available.

Veriton M275 Exploded Diagram

NOTE: This section will be updated when more information becomes available.



ITEM	NAME	Q'TY	ITEM	NAME	Q'TY
1	CHASSIS	1	18	MOTHERBOARD	1
2	LINE-CLIP	1	19	PCI-BRACKET	1
3	USB-SHIELD NUT 6-32#	2	20	FAN	1
4	USB-SHIELDING	1	21	POWER SUPPLY	1
5	USB PCB MODULE	1	22	USB-TOP	1
6	SIDE FOOT RUBBER	4	23	LOGO-SUPPORT	1
7	RIGHT SIDE PLATE	1	24	MAIN-BEZEL	1
8	LED/SEITCH HOLDER	1	25	LEFT-WIRE-NETTING	1
9	CD-ROM	1	26	ODD-COVER	2
10	CARD READER DEVICE	1	27	FDD-COVER	2
11	OBR HOLDER	1	28	HDD-LENS	1
12	PLASTIC FOOT	4	29	FRONT-STRIP-MODULE	1
13	CD-ROM LOCK SLIDE	2	30	POWER-LENS	1
14	FDD-LOCK-SLIDE	2	31	POWER BUTTON	1
15	SMALL LINE CLIP	2	32	FRONT-STRIP-MODULE	1
16	HDD MODULE	4	33	SWITCH-HOLDER	1
17	LEFT SIDE PLATE	1	34	RIGHT-WIRE-NETTING	1

Veriton M275 FRU List

Category	Description	Part Number
MB kit		
	MB Kit VM275 Intel G41 ICH7 GMA X4500 Acer Logo uATX IO shielding W/O 1394 V1.0 LF	MB.VAL09.001
Bezel		
	New Veriton Bezel VM210 for HM081	PZ.11900.078
Chassis		
	HM081 (Micro-Tower)	HS.13100.054
Nameplate		
	Namplate "M2 SERIES"	PZ.V7600.008
CPU Cooler		
	FAN COOLER P4_SKT775 PKP367 W/I SUNON 4000RPM	HI.3670C.001
	Fan Cooler LGA775 TMD06 Fan 9225	HI.10800.006
Dust filter_HM081		
	Dust filter_HM081 for HM081, V-2 Flammability Rating?	PC.13400.027
System Fan		
	System Fan KDE 1209/GP 92*92*25 (Rohs)	HI.S150F.002
CPU		
	Core 2 Quad Q9650 (3.0G 12M 1333FSB), 95W , E0	KC.96501.QQE
	Core 2 Quad Q9550 (2.83G 12M 1333FSB), 95W , E0	KC.95501.QQE
	Core 2 Quad Q9505 (2.83G 6M 1333FSB), 95W , R0	KC.50501.QQ9
	Core 2 Quad Q9500 (2.83G 6M 1333FSB) , 95W , R0 ,No VT-d,TxT	TBD
	Core 2 Quad Q8400 (2.66G 4M 1333FSB) ,95W , R0	KC.84001.QQ0
	Core 2 Quad Q8300 (2.5G 4M 1333FSB) 95W , R0 ,VT	KC.83001.QQV
	Core 2 Duo E8600 (3.33G 6M 1333FSB) , 65W , E0	KC.86001.DEE
	Core 2 Duo E8500 (3.16G 6M 1333FSB) , 65W , E0	KC.85001.DEE

Category	Description	Part Number
	Core 2 Duo E8400 (3.0G 6M 1333FSB) , 65W , E0	KC.84001.DEE
	Core 2 Duo E7600 (3.06G 3M 1066FSB) , 65W , R-0	KC.76001.DE0
	Core 2 Duo E7500 (2.66G 3M 1066FSB) , 65W , R0 ,VT	KC.75001.DEV
	Pentium Dual Core E6600 (3.06G 2M 1066FSB) , 65W , R-0	KC.66001.DEM
	Pentium Dual Core E6500 (2.93G 2M 1066FSB) , 65W , R-0	KC.65001.DEM
	Celeron Dual Core E3400 (2.6G 1MB 800FSB) , 65W ,R-0	KC.34001.CDE
	Celeron Dual Core E3300 (2.5G 1MB 800FSB) , 65W , R-0	KC.33001.CDE
Memory		
	1GB, DDRIII1333	KN.1GB0B.030
	1GB, DDRIII1333	KN.1GB03.032
	1GB, DDRIII1333	KN.1GB0H.015
	1GB, DDRIII1333	KN.1GB0G.024
	2GB, DDRIII1333	KN.2GB0B.014
	2GB, DDRIII1333	KN.2GB03.016
	2GB, DDRIII1333	KN.2GB0H.009
	2GB, DDRIII1333	KN.2GB0G.015
HDD		
	320G SATA2 8MB 7200 NCQ	KH.32007.006
	640G SATA2 8MB 7200 NCQ	KH.64007.001
	1T SATA2 8MB 7200 NCQ	KH.01K07.002
	320G SATA2 8MB 7200 NCQ	KH.32001.015
	640G SATA2 8MB 7200 NCQ	KH.64001.002
	750G SATA2 8MB 7200 NCQ	KH.75001.008
	1T SATA2 8MB 7200 NCQ	KH.01K01.007
	1.5TB	KH.15K01.002
	320G SATA2 8MB 7200 NCQ	KH.32008.016
	640GB XL320M SATA II 16MB LF	KH.64008.003
	500G SATA2 8MB 7200 NCQ	KH.50008.014
	1T SATA2 8MB 7200 NCQ	KH.01K08.004
ODD DVD ROM		
	ODD HLDS DVD-ROM HH 16X DH20N LF+HF Black Bezel SATA w/Win7	KV.0160D.016
	ODD PLDS DVD-ROM HH DL 16X DH-16D5SH LF+HF Black Bezel SATA w/Win7	KV.0160F.002
	ODD HLDS Super-Multi DRIVE HH 16X GH41N Black Bezel SATA HF + Win 7	KU.0160D.049

Category	Description	Part Number
	ODD PLDS Super-Multi DRIVE HH 16X DH-16AASH Black Bezel SATA HF+Win7	KU.0160F.009
PSU		
	DPS-250AB-22 E	PY.25009.014
	ATX-250PA(1) (A01003)	PY.25008.031
	DPS-250AB-22 D	PY.25009.015
	ATX-250PA(1PF) (A01005)	PY.25008.032
	FR 300W (30L) 82+ EuP	PY.30009.019
	FR 300W (30L) 82+ EuP	PY.30008.029
VGA (PCI-E x 16)		
	288-40N44-020AC GEFORCE 310 512MB DDR2 SAMSUNG (64BITS) VGA DVI HDMI ATX BRACKET ROHS?	VG.PCPT3.101
	288-40N44-120AC GEFORCE 310 512MB DDR2 HYNIX (64BITS) VGA DVI HDMI ATX BRACKET ROHS?	VG.PCPT3.102
	NV 315 512MB sDDR3 DVI+HDMI+VGA ATX (SAMSUNG)	VG.PCPT3.151
	NV 315 512MB sDDR3 DVI+HDMI+VGA ATX (HYNIX)	VG.PCPT3.152
	NV GT320 1GB sDDR3 DVI+HDMI+VGA ATX (SAMSUNG)	VG.PCPT3.201
	NV GT320 1GB sDDR3 DVI+HDMI+VGA ATX (HYNIX)	VG.PCPT3.202
	PCP 288-30E99001AC HD4350	VG.APC43.501
	288-1E145-001AC HD5450 512MB SDDR 3 (64BITS) SAMSUNG DVI HDMI VGA W/ATX BKT ROHS	VG.APC54.501
	288-2E142-000AC HD5570 1GB DDR 3 (128BITS) SAMSUNG DVI HDMI VGA W/ATX BKT ROHS	VG.APC55.701
Modem		
	Lite-on D-1156I#/A7A 56K MDM ATX LSI Universal Modem (PCI) 56K V.92 - Pinball	FX.10100.004
	Pro-Nets HPI56L6 56K MDM ATX LSI Universal Modem (PCI) 56K V.92 - Pinball (P40)	FX.10100.006
Wireless LAN (PCI-E)		
	WP81R1, WLAN PCI Card 802.11b/g/n 1T x 2R, Realtek RTL8190	NI.10200.021
	WN5301A, WLAN PCI Card 802.11 b/g, Atheros AR2415	NI.10200.027

Category	Description	Part Number
Card Reader		
	NS 16-in-1 CR commercial 3.5" w/USB2.0,Realtek_5181, w/ micro SD,w/ M2?	CR.10400.097
Printer port cable		
	Printer port cable (no bracket)	PA.V6000.002
Com2 port cable		
	COM2 port cable	CA.H700D.006
FDD		
	Sony FDD 1.44M 3.5"(black) , RoHS	PZ.12700.008
Recovery Card-PCGuard		
	Recovery Card_PCGuard_V5.1_PCI_FH package, with CD+Quick Guide+PCI Full-Height, Win7	PA.14000.026
TPM daughter board		
	TPM module with STMicro chip	PZ.12700.033
External Speaker		
	Neosonica Speaker Acer logo /LF/0810	SP.10600.011
	JS USB2.0 Speaker USB MS1238UA	SP.10600.013
Internal Speaker		
	Internal Speaker_3.5V2 Mono, (Plug on HD audio header)	SP.10600.030
Mouse		
	Acer 0810 Project PS2 Optical mouse	MS.11200.013
	Logitech 0810_USB Optical mouse USB M-UAY-ACR2	MS.11200.014
	Lite-On PS2 optical mouse PS2 SM-9620	MS.11200.017
	Lite-On USB optical USB SM-9625	MS.11200.018
	Logitech USB Optical mouse USB M-UAE96 GS?	MS.11200.019?
Keyboard		
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black US w/o eKey	KB.PS203.284
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Traditional Chinese w/o eKey	KB.PS203.285
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Simplified Chinese w/o eKey	KB.PS203.286
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black US International w/o eKey	KB.PS203.287

Category	Description	Part Number
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Arabic/English w/o eKey	KB.PS203.288
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Thailand w/o eKey	KB.PS203.289
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Spanish w/o eKey	KB.PS203.290
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Portuguese w/o eKey	KB.PS203.291
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Canadian French w/o eKey	KB.PS203.292
	Keyboard CHICONY KB-0759 PS/2 Standard 107KS Black Brazilian Portuguese w/o eKey	KB.PS203.293
	Keyboard CHICONY KB-0759 PS/2 Standard 109KS Black Japanese w/o eKey	KB.PS203.294
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black German w/o eKey	KB.PS203.295
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Italian w/o eKey	KB.PS203.296
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black French w/o eKey	KB.PS203.297
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Swedish w/o eKey	KB.PS203.298
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black UK w/o eKey	KB.PS203.299
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Dutch w/o eKey	KB.PS203.300
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Swiss/G w/o eKey	KB.PS203.301
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Belgium w/o eKey	KB.PS203.302
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Icelandic w/o eKey	KB.PS203.303
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Norwegian w/o eKey	KB.PS203.304
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Hebrew w/o eKey	KB.PS203.305
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Polish w/o eKey	KB.PS203.306
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Slovenian w/o eKey	KB.PS203.307
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Slovak w/o eKey	KB.PS203.308
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Russian w/o eKey	KB.PS203.309
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Hungarian w/o eKey	KB.PS203.310

Category	Description	Part Number
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Greek w/o eKey	KB.PS203.311
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Danish w/o eKey	KB.PS203.312
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Czech w/o eKey	KB.PS203.313
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Romanian w/o eKey	KB.PS203.314
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Turkish w/o eKey	KB.PS203.315
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Spanish Latin w/o eKey	KB.PS203.316
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Turkish-Q w/o eKey	KB.PS203.317
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Arabic/French w/o eKey	KB.PS203.318
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Kazakh w/o eKey	KB.PS203.319
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Turkmen w/o eKey	KB.PS203.320
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Nordic w/o eKey	KB.PS203.321
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black Simplified Chinese w/o eKey , w/i farmer PC label	KB.PS203.322
	Keyboard CHICONY KB-0759 PS/2 Standard 104KS Black US w/o eKey , w/i farmer PC label	KB.PS203.323
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black English/Canadian French	KB.PS203.328
	Keyboard CHICONY KB-0759 PS/2 Standard 105KS Black Czech/Slovak	KB.PS203.331
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black US w/o eKey	KB.PS20B.069
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Traditional Chinese w/o eKey	KB.PS20B.070
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Simplified Chinese w/o eKey	KB.PS20B.071
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black US International w/o eKey	KB.PS20B.072
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Arabic/English w/o eKey	KB.PS20B.073
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Thailand w/o eKey	KB.PS20B.074
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Spanish w/o eKey	KB.PS20B.075
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Portuguese w/o eKey	KB.PS20B.076

Category	Description	Part Number
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Canadian French w/o eKey	KB.PS20B.077
	Keyboard LITE-ON SK-9620 PS/2 Standard 107KS Black Brazilian Portuguese w/o eKey	KB.PS20B.078
	Keyboard LITE-ON SK-9620 PS/2 Standard 109KS Black Japanese w/o eKey	KB.PS20B.079
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black German w/o eKey	KB.PS20B.080
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Italian w/o eKey	KB.PS20B.081
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black French w/o eKey	KB.PS20B.082
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Swedish w/o eKey	KB.PS20B.083
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black UK w/o eKey	KB.PS20B.084
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Dutch w/o eKey	KB.PS20B.085
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Swiss/G w/o eKey	KB.PS20B.086
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Belgium w/o eKey	KB.PS20B.087
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Icelandic w/o eKey	KB.PS20B.088
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Norwegian w/o eKey	KB.PS20B.089
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Hebrew w/o eKey	KB.PS20B.090
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Polish w/o eKey	KB.PS20B.091
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Slovenian w/o eKey	KB.PS20B.092
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Slovak w/o eKey	KB.PS20B.093
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Russian w/o eKey	KB.PS20B.094
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Hungarian w/o eKey	KB.PS20B.095
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Greek w/o eKey	KB.PS20B.096
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Danish w/o eKey	KB.PS20B.097
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Czech w/o eKey	KB.PS20B.098
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Romanian w/o eKey	KB.PS20B.099

Category	Description	Part Number
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Turkish w/o eKey	KB.PS20B.100
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Spanish Latin w/o eKey	KB.PS20B.101
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Turkish-Q w/o eKey	KB.PS20B.102
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Arabic/French w/o eKey	KB.PS20B.103
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Kazakh w/o eKey	KB.PS20B.104
	Keyboard LITE-ON SK-9620 PS/2 Standard 104KS Black Turkmen w/o eKey	KB.PS20B.105
	Keyboard LITE-ON SK-9620 PS/2 Standard 105KS Black Nordic w/o eKey	KB.PS20B.106
	Keyboard LITE-ON SK9620 PS/2 Standard 104KS Black Thailand with 2.5m cable	KB.PS20B.108
	Keyboard LITE-ON SK9620 PS/2 Standard 105KS Black English/Canadian French	KB.PS20B.109
	Keyboard CHICONY KU-0760 USB Standard 104KS Black US w/o eKey	KB.USB03.192
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Traditional Chinese w/o eKey	KB.USB03.193
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Simplified Chinese w/o eKey	KB.USB03.194
	Keyboard CHICONY KU-0760 USB Standard 104KS Black US International w/o eKey	KB.USB03.195
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Arabic/English w/o eKey	KB.USB03.196
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Thailand w/o eKey	KB.USB03.197
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Spanish w/o eKey	KB.USB03.198
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Portuguese w/o eKey	KB.USB03.199
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Canadian French w/o eKey	KB.USB03.200
	Keyboard CHICONY KU-0760 USB Standard 107KS Black Brazilian Portuguese w/o eKey	KB.USB03.201
	Keyboard CHICONY KU-0760 USB Standard 109KS Black Japanese w/o eKey	KB.USB03.202
	Keyboard CHICONY KU-0760 USB Standard 105KS Black German w/o eKey	KB.USB03.203
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Italian w/o eKey	KB.USB03.204
	Keyboard CHICONY KU-0760 USB Standard 105KS Black French w/o eKey	KB.USB03.205

Category	Description	Part Number
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Swedish w/o eKey	KB.USB03.206
	Keyboard CHICONY KU-0760 USB Standard 105KS Black UK w/o eKey	KB.USB03.207
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Dutch w/o eKey	KB.USB03.208
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Swiss/G w/o eKey	KB.USB03.209
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Belgium w/o eKey	KB.USB03.210
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Icelandic w/o eKey	KB.USB03.211
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Norwegian w/o eKey	KB.USB03.212
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Hebrew w/o eKey	KB.USB03.213
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Polish w/o eKey	KB.USB03.214
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Slovenian w/o eKey	KB.USB03.215
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Slovak w/o eKey	KB.USB03.216
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Russian w/o eKey	KB.USB03.217
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Hungarian w/o eKey	KB.USB03.218
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Greek w/o eKey	KB.USB03.219
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Danish w/o eKey	KB.USB03.220
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Czech w/o eKey	KB.USB03.221
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Romanian w/o eKey	KB.USB03.222
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Turkish w/o eKey	KB.USB03.223
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Spanish Latin w/o eKey	KB.USB03.224
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Turkish-Q w/o eKey	KB.USB03.225
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Arabic/French w/o eKey	KB.USB03.226
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Kazakh w/o eKey	KB.USB03.227
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Turkmen w/o eKey	KB.USB03.228

Category	Description	Part Number
	Keyboard CHICONY KU-0760 USB Standard 105KS Black Nordic w/o eKey	KB.USB03.229
	Keyboard CHICONY KU-0760 USB Standard 104KS Black Simplified Chinese w/o eKey; w/i farmer PC label	KB.USB03.230
	Keyboard CHICONY KU-0760 USB Standard 104KS Black US w/o eKey; w/i farmer PC label	KB.USB03.232
	Keyboard CHICONY KU-0760 USB Standard 105KS Black English/Canadian French	KB.USB03.246
	Keyboard CHICONY KU-0760 USB Standard 105KS Black CZ/SK	KB.USB03.311
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black US w/o eKey	KB.USB0B.158
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Traditional Chinese w/o eKey	KB.USB0B.159
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Simplified Chinese w/o eKey	KB.USB0B.160
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black US International w/o eKey	KB.USB0B.161
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Arabic/English w/o eKey	KB.USB0B.162
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Thailand w/o eKey	KB.USB0B.163
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Spanish w/o eKey	KB.USB0B.164
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Portuguese w/o eKey	KB.USB0B.165
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Canadian French w/o eKey	KB.USB0B.166
	Keyboard LITE-ON SK-9625 USB Standard 107KS Black Brazilian Portuguese w/o eKey	KB.USB0B.167
	Keyboard LITE-ON SK-9625 USB Standard 109KS Black Japanese w/o eKey	KB.USB0B.168
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black German w/o eKey	KB.USB0B.169
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Italian w/o eKey	KB.USB0B.170
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black French w/o eKey	KB.USB0B.171
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Swedish w/o eKey	KB.USB0B.172
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black UK w/o eKey	KB.USB0B.173
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Dutch w/o eKey	KB.USB0B.174
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Swiss/G w/o eKey	KB.USB0B.175

Category	Description	Part Number
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Belgium w/o eKey	KB.USB0B.176
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Icelandic w/o eKey	KB.USB0B.177
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Norwegian w/o eKey	KB.USB0B.178
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Hebrew w/o eKey	KB.USB0B.179
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Polish w/o eKey	KB.USB0B.180
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Slovenian w/o eKey	KB.USB0B.181
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Slovak w/o eKey	KB.USB0B.182
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Russian w/o eKey	KB.USB0B.183
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Hungarian w/o eKey	KB.USB0B.184
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Greek w/o eKey	KB.USB0B.185
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Danish w/o eKey	KB.USB0B.186
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Czech w/o eKey	KB.USB0B.187
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Romanian w/o eKey	KB.USB0B.188
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Turkish w/o eKey	KB.USB0B.189
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Spanish Latin w/o eKey	KB.USB0B.190
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Turkish-Q w/o eKey	KB.USB0B.191
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Arabic/French w/o eKey	KB.USB0B.192
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Kazakh w/o eKey	KB.USB0B.193
	Keyboard LITE-ON SK-9625 USB Standard 104KS Black Turkmen w/o eKey	KB.USB0B.194
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black Nordic w/o eKey	KB.USB0B.195
	Keyboard LITE-ON SK-9625 USB Standard 105KS Black English/Canadian French	KB.USB0B.198