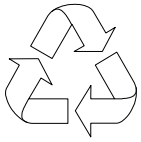
Aspire AX1430
Desktop Computer Service Guide



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Revision History

Refer to the table below for changes made on this version of the Aspire AX1430 Desktop Computer Service Guide.

Date	Chapter	Updates

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Conventions

The following conventions are used in this service guide.

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 our "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 AUTHORIZED SERVICE PROVIDERS, your 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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Table of Contents

Chapter 1

Features and Specifications

This chapter lists the features and specifications of the Aspire AX1430 computer.

NOTE The items listed in this section are for reference only. The exact configuration of your PC depends on the model purchased. Refer to the FRU list chapter on page 93 for a detailed list of models supported by each hardware component.

System Features

Component	Description
Operating system support	• Microsoft Windows 7 Home Basic (X64/X86) • Microsoft Windows 7 Home Premium (X64/X86) • Microsoft Windows 7 Starter (×86) • Microsoft Windows 7 (X64/X86) • Linpus X-Windows • FreeDos
Processor	AMD E350
Chipset	AMD Hudson D1
Graphics controller	AMD Zacate GPU Graphics Support
Memory	• Two dual-channel DIMM slots supporting 240-pin unbuffered DDR3 SDRAM modules • Data rate supported: 800/1066/1333 MT/s • Maximum memory: dual-channel up to 16GB
Expansion options	• One PCI Express x16 slot (reserved for GPU card installation) • One PCI Express x1 slot
Connectivity	• Wired LAN: Realtek RTL8111E-VL (Single-Chip/Port 10/100 Fast Ethernet PHYceiver with Auto MDIX) • WLAN option: 802.11 b/g/n wireless network adapter
Hard disk drive (HDD)	• One HDD bay suppporting 3.5-inch 25.4 mm SATA HDDs • Support 7200 rpm SATA HDD in 160 - 1500 GB capacities
Optical disc drive (ODD)	• One ODD bay supporting 5.25-inch standard SATA ODD • Supports DVD-R/RW drive or DVD-Super Multi double-layer drive
Card reader (optional)	• 4-in-1 card reader • The following memory cards are supported: – Memory Stick PRO (MS PRO), Memory Stick (MS) – xD-Picture Card (xD) – Secure Digital (SD), – MultiMediaCard (MMC)
TV tuner (optional)	AVerMedia H751 PCI-E Hybrid Analog/ATSC Card
Power supply	220 W power supply unit (non-PFC, non-power factor correction) 220 W power supply unit (PFC)
Antivirus software	Norton Internet Security

Component	Description
System BIOS	• AMI BIOS with 8 MB SPI ROM • Supports ACPI revision 2.0 standard • Supports Plug and Play, STR(S3)/STD(S4), hardware monitor, Multi Boot, and DMI protocols
Power management	• ACPI 2.0 or 1.0b (Advanced Configuration Power Interface) standard • S0, S1, S2 and S5 sleep states support • On-board device power management support • On-board device configuration support

Audio

Item	Description
Audio codec	• Realtek ALC662 5.1 Channel High Definition Audio Codec
Audio jacks	• Front panel: Headphone and microphone jacks • Rear panel: Microphone, line-out, and line-in jacks

I/O Ports and LED Indicators

Component	Description
I/O ports	• Front panel – USB ports (two) – Headphone jack – Microphone jack – CF card slot – Memory Stick PRO card slot • Rear panel – PS/2 keyboard and mouse ports – External display (VGA) port – HDMI port – USB ports (four) – Ethernet jack (RJ45) – Microphone, line-out, and line-in jacks
LED display and buttons	• Power LED • Power button

Physical Specifications

Aspect	Description
Chassis dimension (W × D × H)	100 mm (W) X 367.8 mm (D) x 269 mm (H)
System weight	6.27 kg.
Mainboard form factor	microATX (µATX)
Mainboard dimensions (W × H)	244 × 220 mm

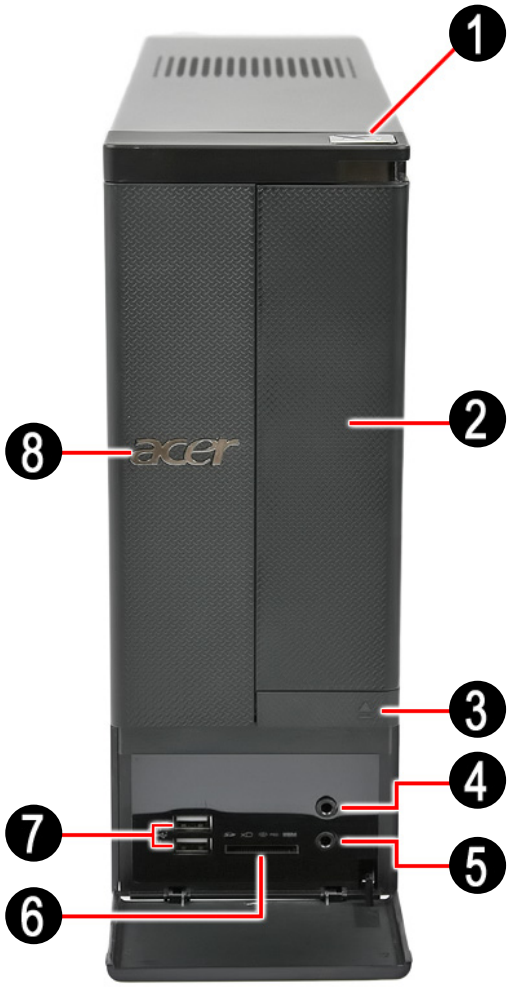
Environmental Requirements

Aspect	Description
Operating temperature	5 to 35 °C (41 to 95 °F)
Operating humidity	15% to 80% RH non-condensing

System Tour

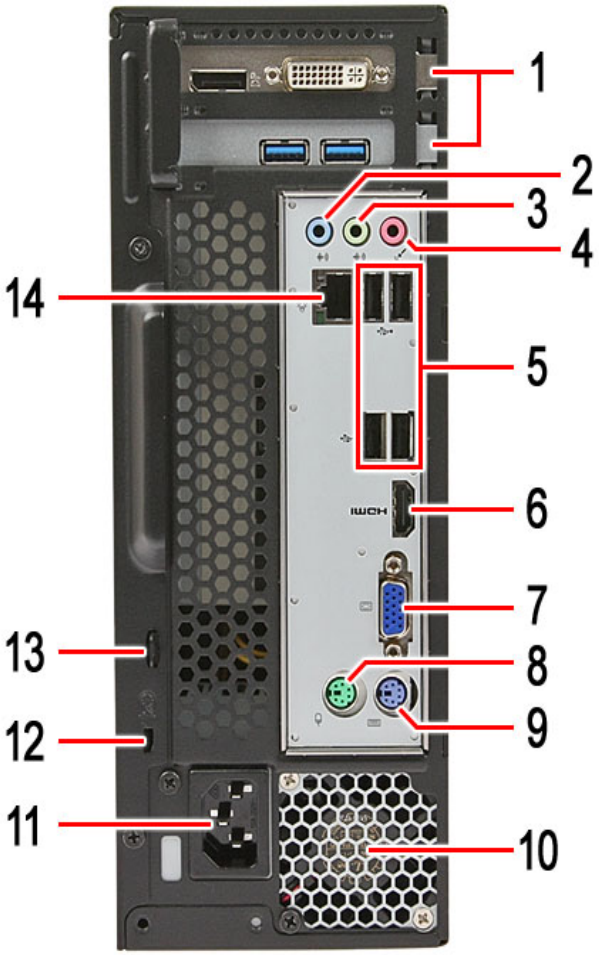
The pictures and tables in this section illustrate the physical outlook of the computer.

Front View



No.	Component
1	Power button/indicator
2	Optical drive cover
3	Optical drive eject button
4	Headphone jack
5	Microphone-in jack
6	4-in-1 optional card reader supporting Memory Stick (MS), xD-Picture Card (xD), Secure Digital (SD), MultiMediaCard (MMC) and Memory Stick PRO (MS PRO)
7	USB 2.0 ports
8	Acer logo

Rear View



No.	Component
1	Expansion slots
2	Line-in jack
3	Line-out jack
4	Microphone jack
5	USB 2.0 ports
6	HDMI connector
7	External monitor port
8	PS/2 mouse connector
9	PS/2 keyboard connector
10	Fan aperture
11	Power connector
12	Kensington lock
13	Key lock
14	LAN connector

Chapter 2

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 computer and the monitor.

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

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

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

   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.
- **+** 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.
- **F7** – Press to load user default values.
- **F8** – Press to save user default values.
- **F9** – Press to load optimized default system values.
- **F10** – Save changes made the Setup and close the utility.

Setup Utility Menus

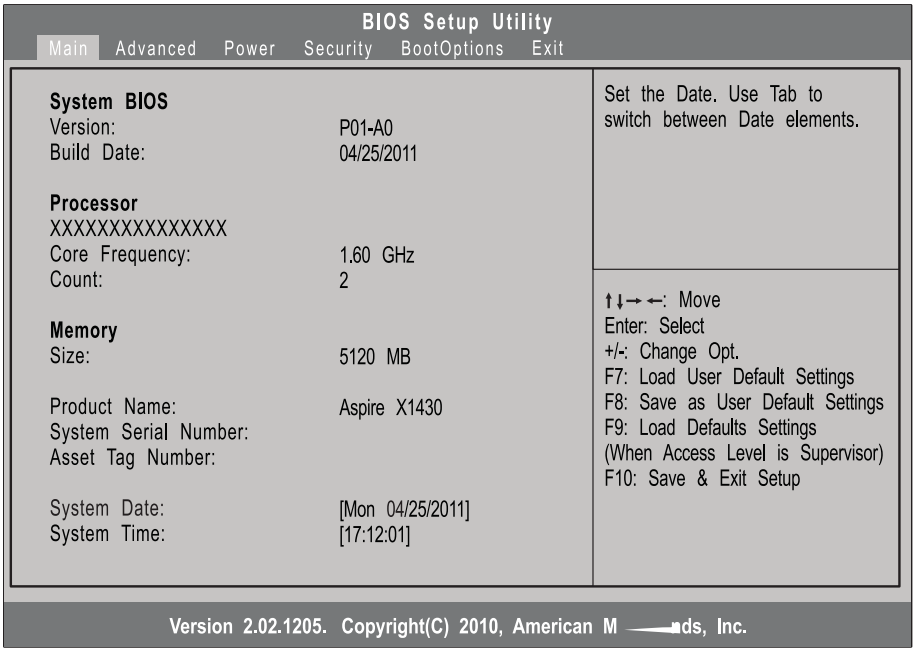
The Setup Main menu includes the following main setup categories.

- Main
- Advanced
- Power
- Security
- Boot Options
- Exit

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

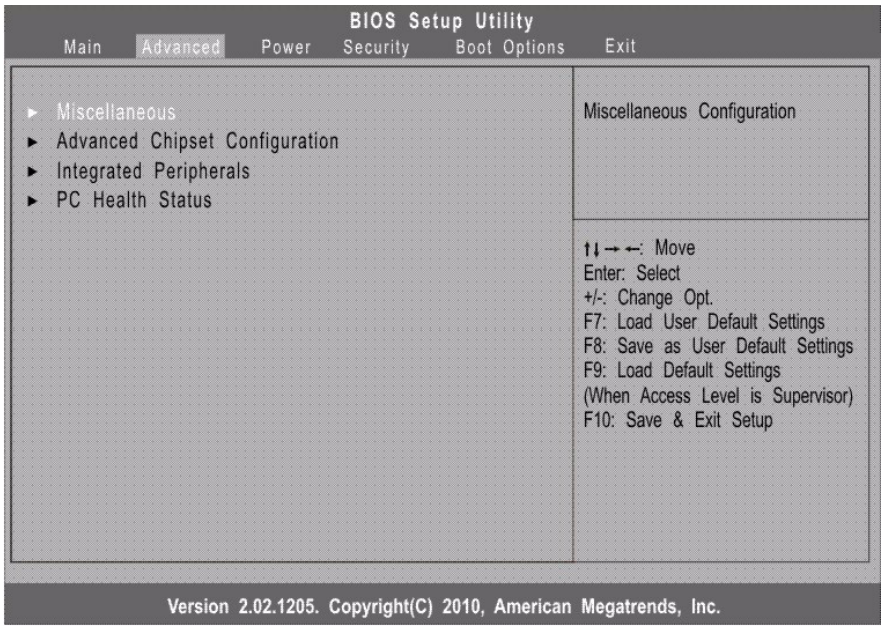
Main

The Main menu displays basic information about the system and lets you set the system date and time.



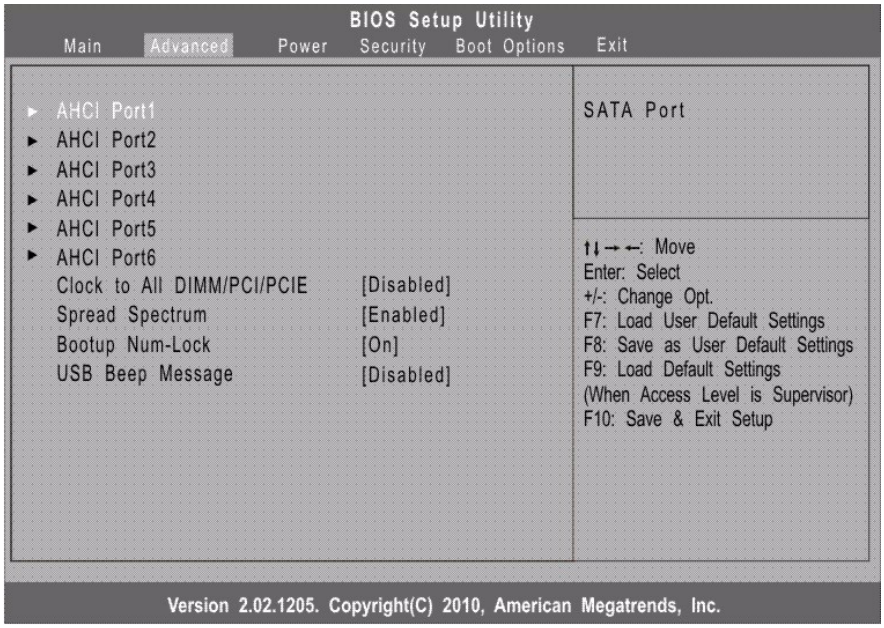
Parameter	Description
System BIOS	
Version	Version number of the BIOS setup utility.
Build Date	Date when the BIOS setup utility was built.
Processor	Type of CPU installed on the system.
Core Frequency	Core speed of the CPU installed on the system.
Count	Physical CPU core.
Memory	
Size	Total size of system memory installed on the system.
Product Name	Product name of the system.
System Serial Number	Serial number of the system.
Asset Tag Number	Asset tag number of this system.
System Date	Set the date following the weekday-month-day-year format.
System Time (hh:mm:ss)	Set the system time following the hour-minute-second format.

Advanced



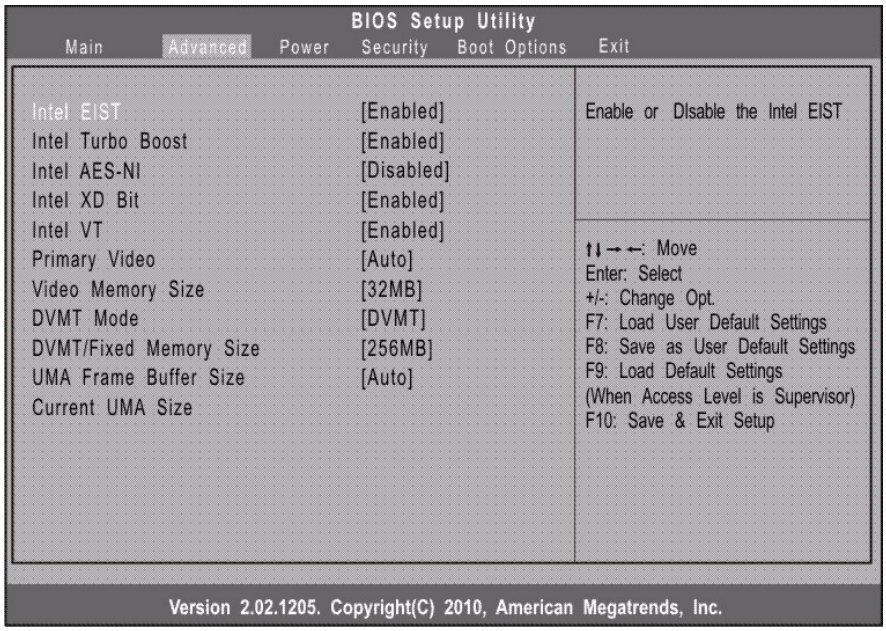
Parameter	Description
Miscellaneous	Press **Enter** to access the Miscellaneous submenu
Advanced Chipset Configuration	Press **Enter** to access the Advanced Chipset Configuration submenu
Integrated Peripherals	Press **Enter** to access the Integrated Peripherals submenu
PC Health Status	Press **Enter** to access the PC Health Status submenu

Miscellaneous



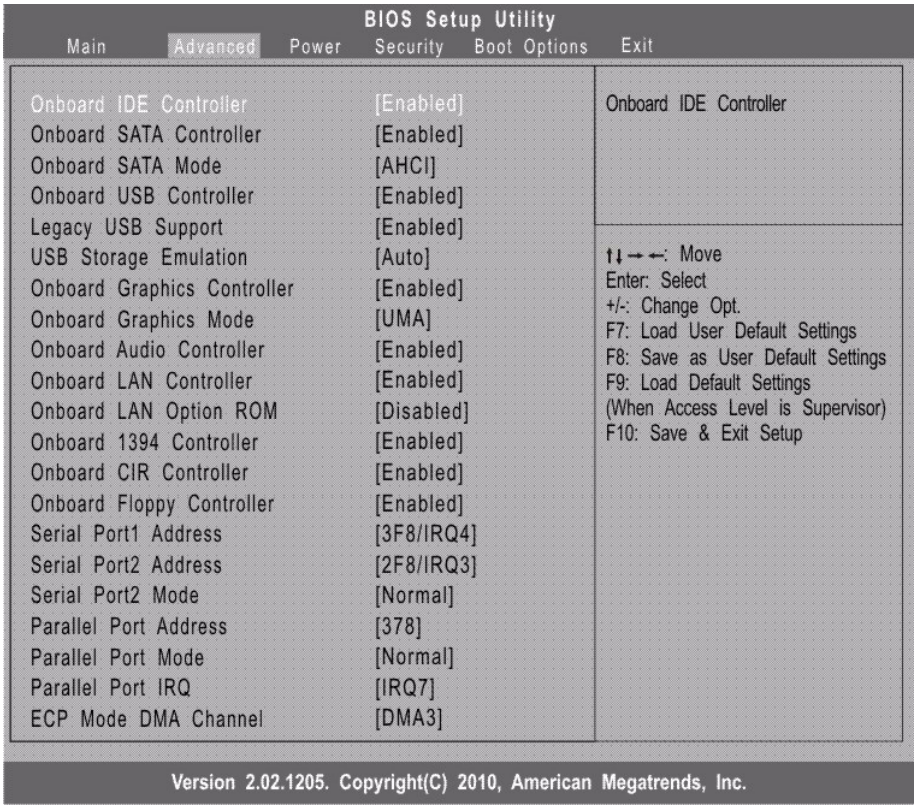
Parameter	Description	Option
AHCI Port1/2/3/4/5/6	Displays the status of auto detection of the AHCI device.	
Clock to All DIMM/PCI/PCIE	Enables or disables the system to detect the DIMM/PCI/PCIE clock automatically during bootup.	**Enabled** Disabled
Spread Spectrum	Enables or disables the reduction 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
Bootup Num-lock	Selects power on state for Num Lock.	**On** Off
USB Beep Message	Enables or disables BIOS to display error beeps or messages during USB device enumeration.	Enabled **Disabled**

Advanced Chipset Configuration



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 Turbo Boost	Enables or disables Intel Turbo Boost Technology.	**Enabled** Disabled
Intel AES-NI	Enables or disables Advanced Encryption Standard New Instructions (AES-NI).	**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
Primary Video	Select a graphic controller as a primary boot device.	**Auto** PCIE Onboard VGA
Video Memory Size	Select the amout of system memory used by the Intel graphics device.	**32MB** 64 MB 128 MB Disabled
DVMT Mode	Select a video memory mode.	**DVMT** Fixed
DVMT/Fixed Memory Size	Select a video memory size.	**256MB** 128 MB Maximum
UMA Free Buffer Size	Select the amount of system memory used by the Intel graphics device.	**Auto** 32MB 64MB 128MB 256MB 512MB
Current UMA Size	Displays the current unified memory architecture (UMA) size.	

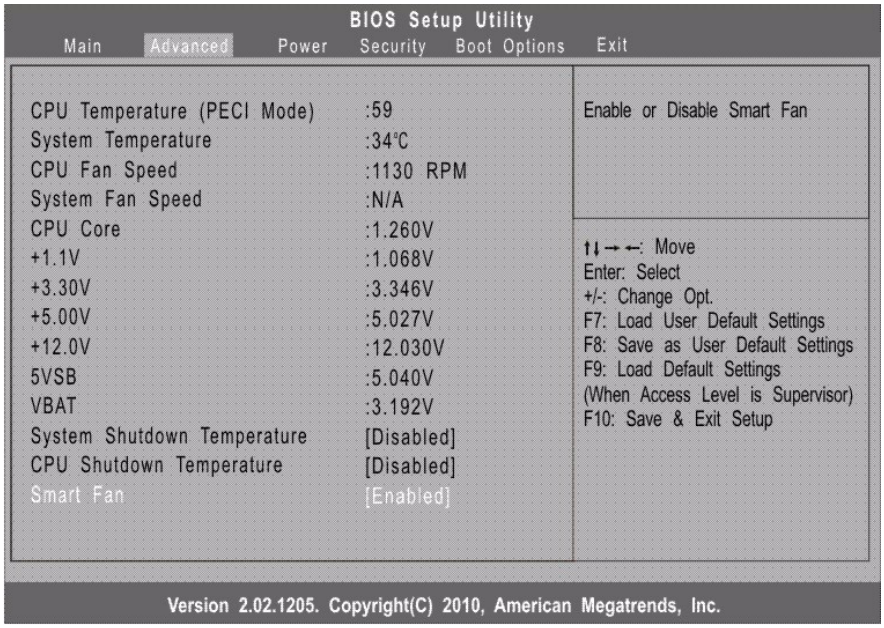
Integrated Peripherals



Parameter	Description	Option
Onboard IDE Controller	Enables or disables the onboard IDE controller.	**Enabled** Disabled
Onboard SATA Controller	Enables or disables the onboard SATA controller.	**Enabled** Disabled
Onboard SATA Mode	Select an operating mode for the onboard SATA.	**AHCI** Native IDE
Onboard USB Controller	Enables or disables support for legacy USB devices	**Enabled** Disabled
Legacy USB Support	Enables or disables support for legacy USB devices.	**Enabled** Disabled
USB Storage Emulation	Select emulation type for a USB mass storage device.	**Auto** Floppy Hard Disk
Onboard Graphics Controller	Enables or disables the onboard graphics controller.	**Auto** Onboard
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**
Onboard 1394 Controller	Enables or disables the onboard 1394 controller.	**Enabled** Disabled
Onboard CIR Controller	Enables or disabled the onboard CIR controller.	**Enabled** Disabled

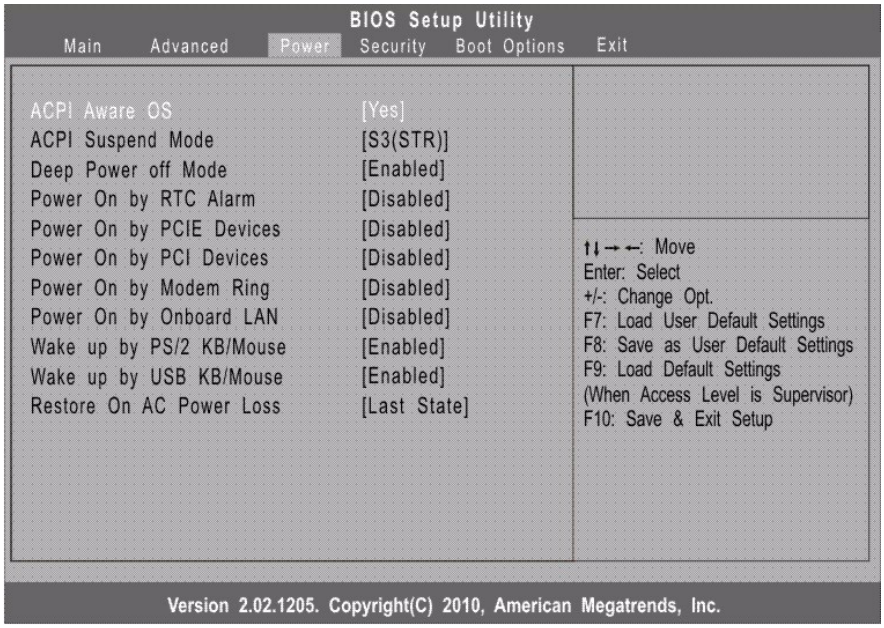
Parameter	Description	Option
Onboard Floppy Controller	Enables or disables the onboard floppy controller.	**Enabled** Disabled
Serial Port1/2 Address	Specify the base I/O port address and interrupt request address of serial port 1 or 2.	Disabled 3F8/IRQ4 2F8/IRQ3 3E8/IRQ4 2E8/IRQ3
Serial Port2 Mode	Select a mode for serial port 2.	**Normal** IrDA ASK IR
Parallel Port Address	Specify the parallel port (LPT1) base address.	Disabled **378** 278 3BC
Parallel Port Mode	Select a mode for the parallel port.	**Normal** EPP ECP EPP+ECP
Parallel Port IRQ	Select a parallel port IRQ interrupt.	IRQ5 **IRQ7**
ECP Mode DMA Channel	Select an ECP mode.	DMA1 **DMA3**

PC Health Status



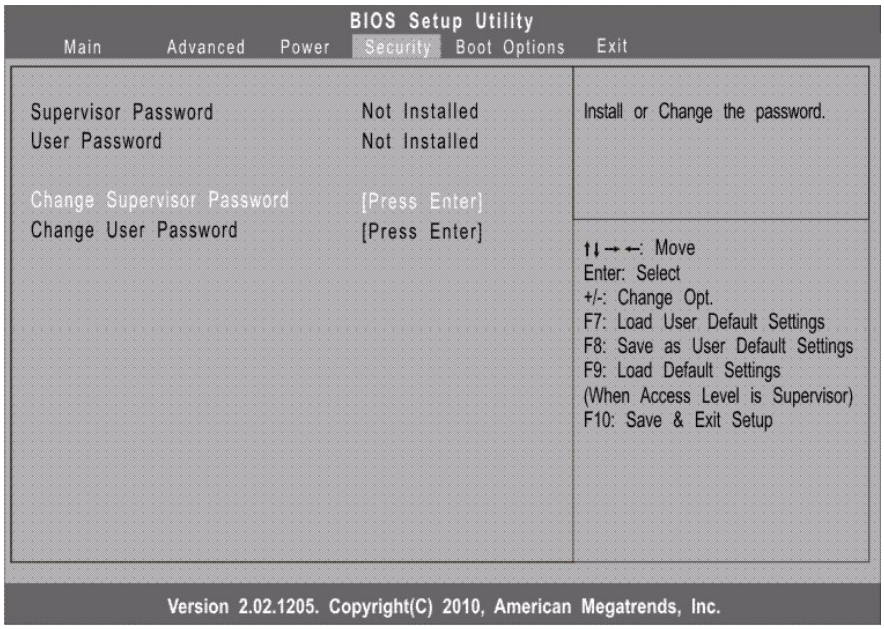
Parameter	Description	Option
System Shutdown Temperature	Set the shutdown temperature of the system.	0°C **Disabled**
CPU Shutdown Temperature	Set the shutdown temperature of the CPU.	0°C **Disabled**
Smart Fan	Enables or disables the smart system fan control function.	**Enabled** Disabled

Power



Parameter	Description	Option
ACPI Aware OS	Enables or disables the Advanced Configuration and Power Management (ACPI) function.	**Yes** No
ACPI Suspend Mode	Select an ACPI state.	**S3 (STR)** S1 (POS)
Deep Power Off Mode	Enables or disables the deep power off mode.	**Enabled** Disabled
Power On by RTC Alarm	Enables or disables real time clock (RTC) to generate a wake event.	Enabled **Disabled**
Power On by PCIE Devices	Enables or disables to wake up the system from a power saving mode through an event on a PCI Express device.	Enabled **Disabled**
Power On by PCI Devices	Enables or disables to wake up the system from a power saving mode through an event on a PCI device.	Enabled **Disabled**
Power On by Modem Ring	Enables or disables to wake up the system from a power saving mode through a modem ring.	Enabled **Disabled**
Power On by Onboard LAN	Enables or disables an onboard LAN controller to generate a wake event.	Enabled **Disabled**
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	Enables or disables to wake up the system from a power saving mode using a USB keyboard or mouse.	**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**

Security



Parameter	Description
Supervisor Password	Indicates the status of the supervisor password.
User Password	Indicates the status of the user password.
Change Supervisor Password	Supervisor password prevents unauthorized access to the BIOS Setup Utility. Press **Enter** to change the Supervisor password.
Change User Password	Press **Enter** to change the User password.

Setting a system password

1. Use the up/down arrow keys to select a password parameter (Change Supervisor Password or Change User Password) menu then press **Enter**.

   A password box will appear.
2. Type a password then press **Enter**.

   The password may consist up to six alphanumeric characters (A-Z, a-z, 0-9)
3. Retype the password to verify the first entry then press **Enter** again.
4. Press **F10**.
5. Select **Yes** to save the new password and close the Setup Utility.

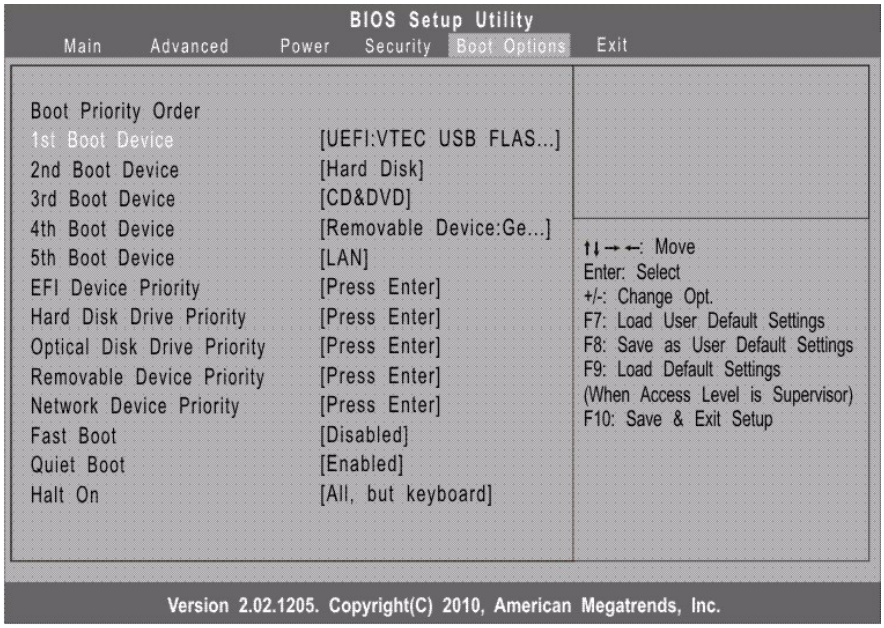
Changing the system password

1. Use the up/down arrow keys to select password parameter (Change Supervisor Password or Change User Password) menu then press **Enter**.
2. Type the original password then press **Enter**.
3. Type a new password then press **Enter**.
4. Retype the password to verify the first entry then press **Enter** again.
5. Press **F10**.
6. Select **Yes** to save the new password and close the Setup Utility.

Removing a system password

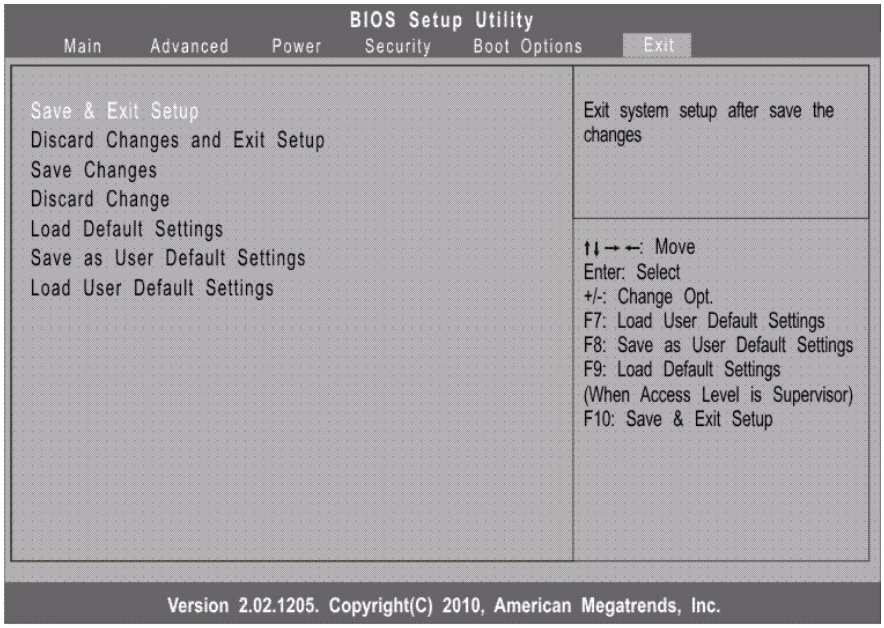
1. Use the up/down arrow keys to select password parameter (Change Supervisor Password or Change User Password) menu then press **Enter**.
2. Enter the current password then press **Enter**.
3. Press **Enter** twice without entering anything in the password fields.

Boot Options



Parameter	Description	Option
1st/2nd/3rd/4th/5th Boot Device	Specifies the boot order from the available devices.	Hard Disk CD/DVD Removable Device LAN
EFI Device Priority	Press **Enter** to access the EFI Device Priority submenu and specify the boot device priority sequence from available EFI devices.	
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 CD/DVD drives.	
Removable Device Priority	Press **Enter** to access the Removable Device Priority submenu and specify the boot device priority sequence from available removable drives.	
Network Device Priority	Press **Enter** to access the Network Device Priority submenu and specify the boot sequence from available network devices.	
Fast 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
Halt On	Determines whether the system will stop for an error during the POST.	**All, but keyboard** No Errors All Errors

Exit



Parameter	Description
Save & Exit Setup	When you have completed the system configuration changes, select this option to leave the BIOS Setup Utility and reboot the computer, so the new system configuration parameters can take effect. Select **Save & Exit Setup** from the Exit menu and press **Enter**.
Discard Changes and Exit Setup	Select this option to quit the BIOS Setup Utility without making any permanent changes to the system configuration, and reboot the computer. Select **Discard Changes and Exit Setup** from the Exit menu and press **Enter**.
Save Changes	Select this option and press **Enter** to save all the changes and return to the BIOS Setup Utility.
Load Default Settings	To set this feature, select **Load Default Settings** from the Exit menu and press **Enter**. Then, select **OK** to allow the BIOS to automatically load optimal defaults to the BIOS settings. The Optimal settings are designed for maximum system performance, but may not work best for all computer applications.
Save as User Default Settings	Select this option and press **Enter** to save changes that you have made as user defaults.
Load User Default Settings	Select this option and press **Enter** to restore user defaults.

Chapter 3

System Disassembly and Reassembly

This chapter provides step-by-step instructions on how to disassemble and reassemble the computer for maintenance and troubleshooting purposes.

Disassembly Tools

In performing the disassembly process, you will need the following tools:

- Wrist-grounding strap and conductive mat for preventing electrostatic discharge
- Philips screwdriver
- Flat screwdriver

NOTES

- To reinstall the system components and assemble the unit, perform the disassembly procedures in reverse.
- The screws for the different components vary in size. During the disassembly process, group the screws with their corresponding components to avoid mismatches when putting back the components.

Pre-disassembly Procedure

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

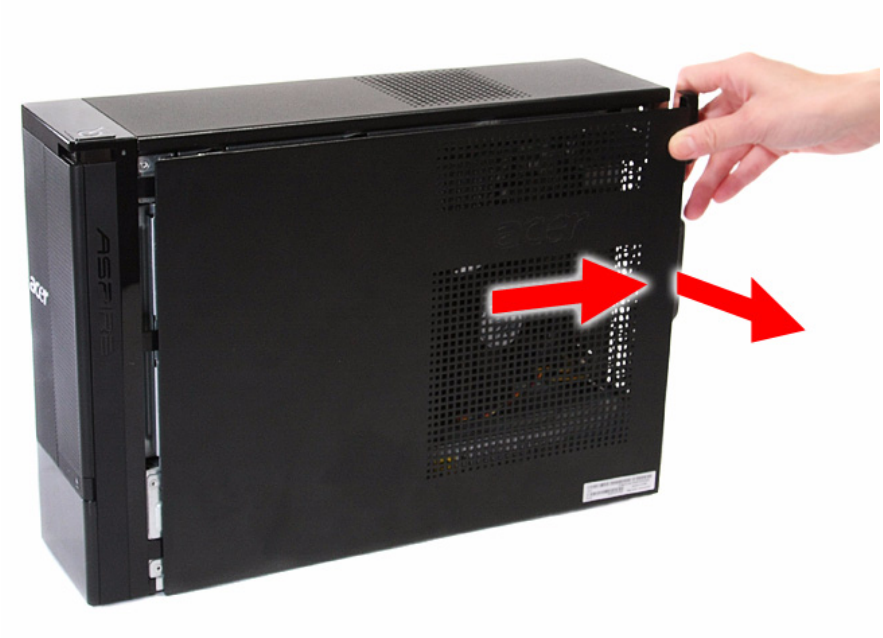
1. Make sure that the optical disc drive and the optional card reader slots are empty.
2. Turn off the power to the computer and all peripherals.
3. Unplug the power cord from the computer.
4. Unplug the network cable and all connected peripheral devices from the computer.
5. Place the computer on a flat, steady surface.

Disassembly Procedures

Removing the Side Panel

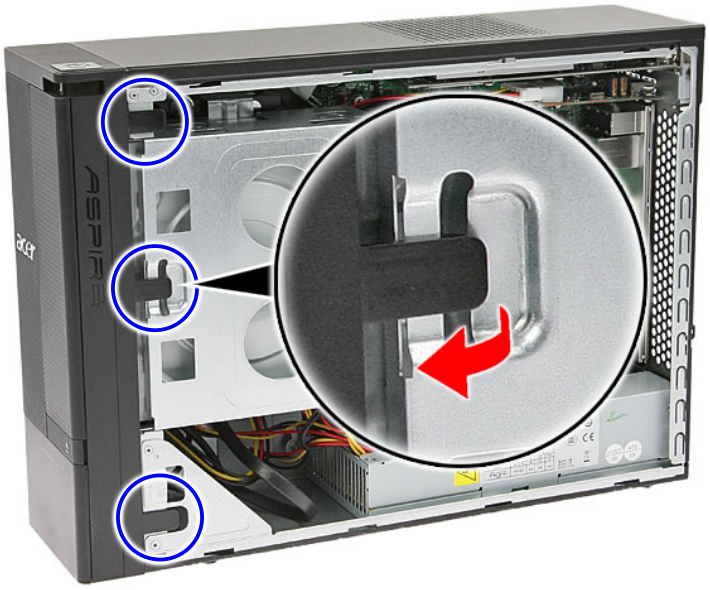
1. Remove the two screws located on the rear edge of the side panel.

2. Slide the panel back about 2.5 cm (1.0 in) to release it from the chassis notches, then detach the panel from the chassis.
3. Put the side panel aside for reinstallation later.



Removing the Front Bezel

1. Release the front bezel retention tabs from the chassis interior.



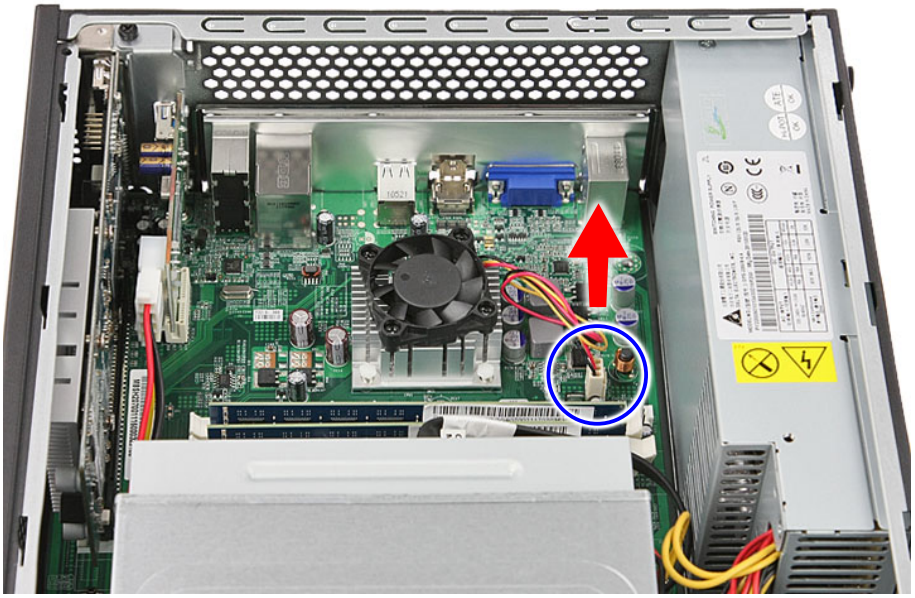
2. Pull the front bezel away from the chassis.

NOTE: The power button and LED cable from the front bezel is still connected to its connector on the mainboard. To detach the front bezel completely, you have to remove the hard disk and optical drive.

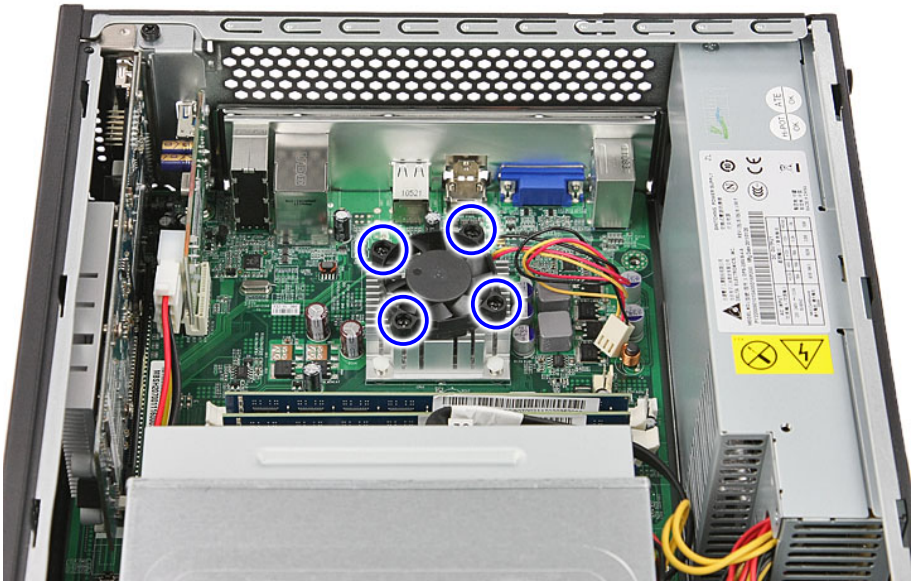
Removing the Heat Sink Fan Assembly

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

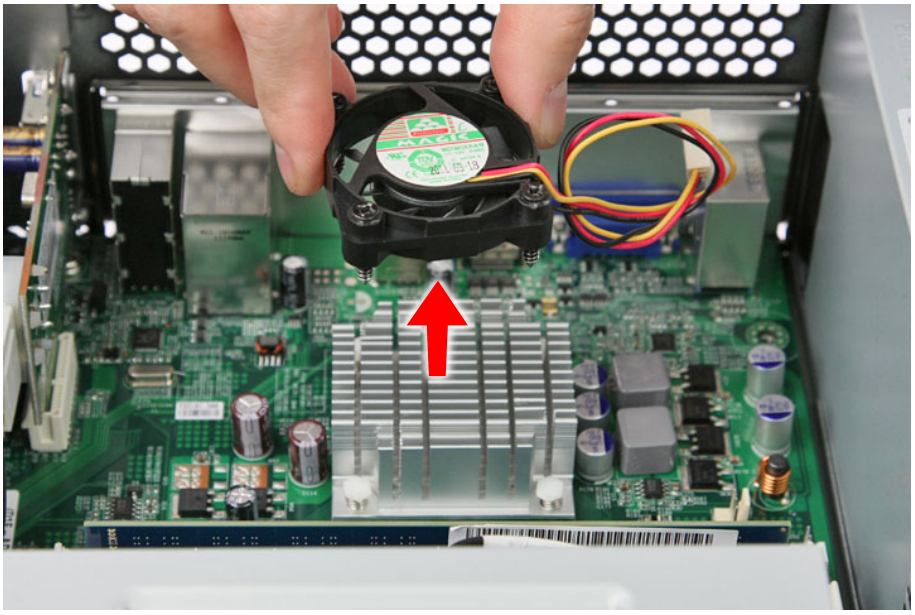
1. Disconnect the fan cable from the mainboard.



2. Use a screwdriver to loosen the four screws on the heat sink as shown below.



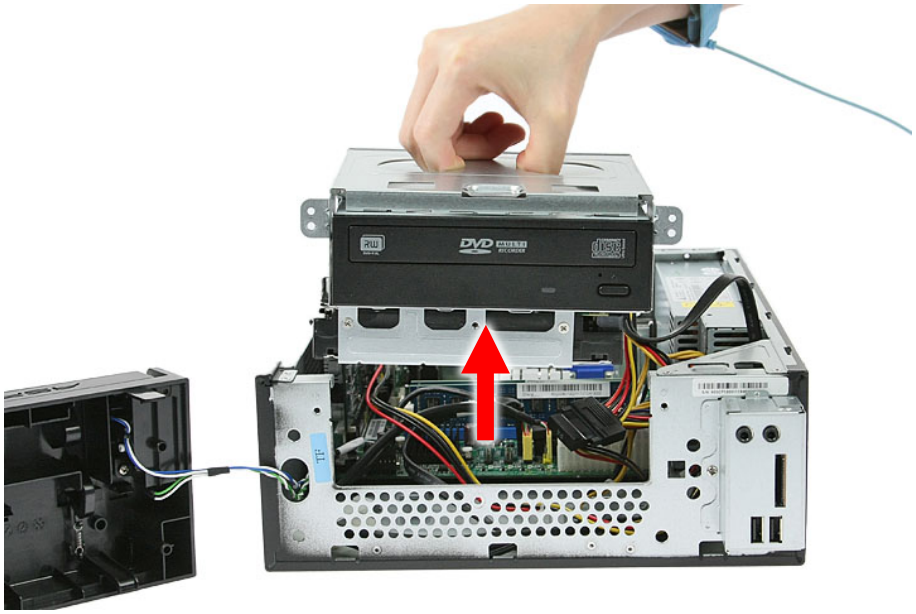
3. Lift the heat sink fan assembly away from the heatsink.



Removing the HDD-ODD Bracket

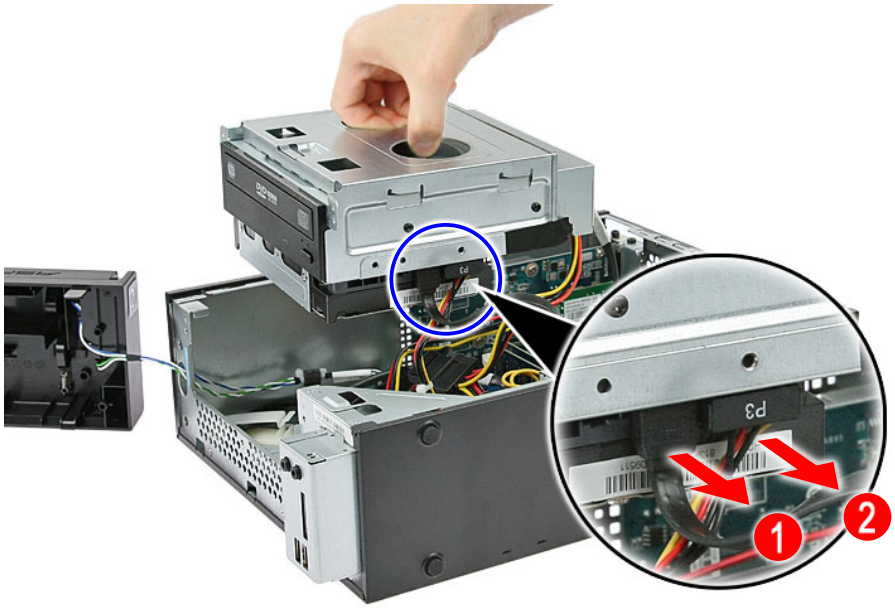
1. Remove the three screws that secure the HDD-ODD bracket to the chassis.

2. Lift the bracket up.

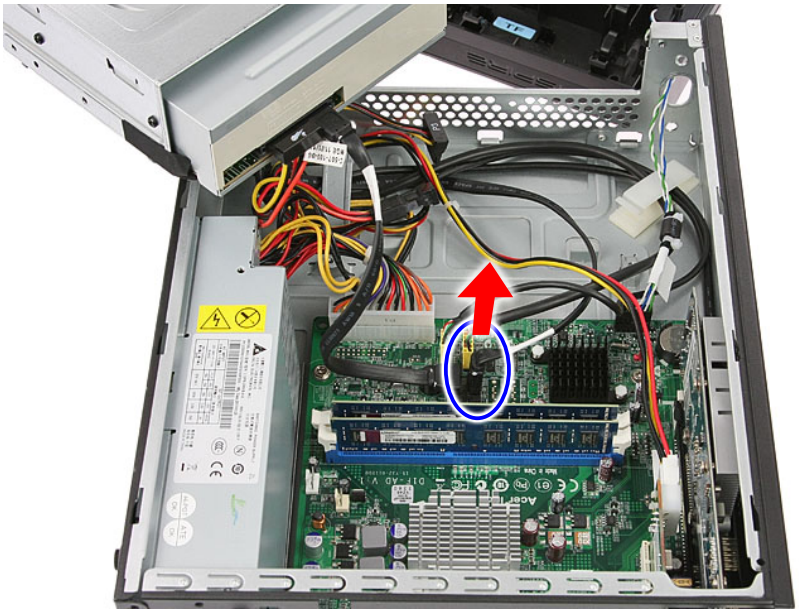


Removing the Optical Drive and the Hard Disk Drive

1. Disconnect the SATA (**1**) and power (**2**) cables from the rear of the optical drive.

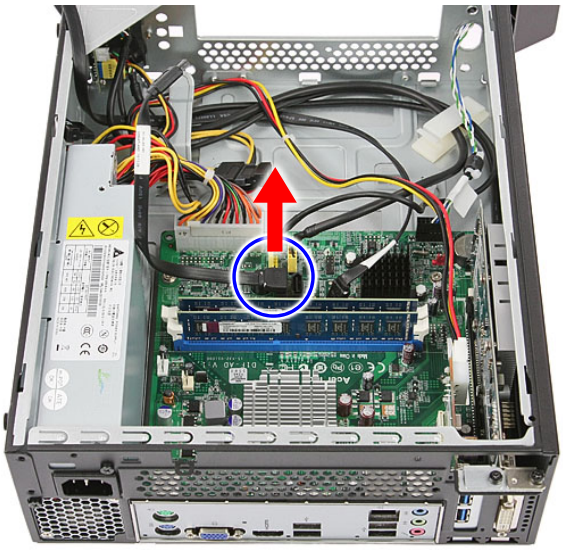


2. Disconnect the other end of the SATA cable from the mainboard.



3. Disconnect the SATA (**2**) and power (**1**) cables from the rear of the hard disk drive.

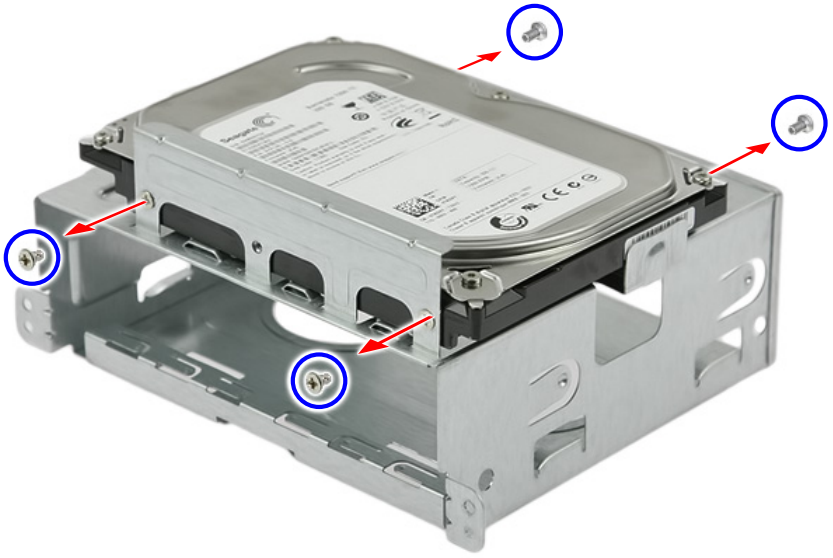
4. Disconnect the other end of the SATA cable from the mainboard.



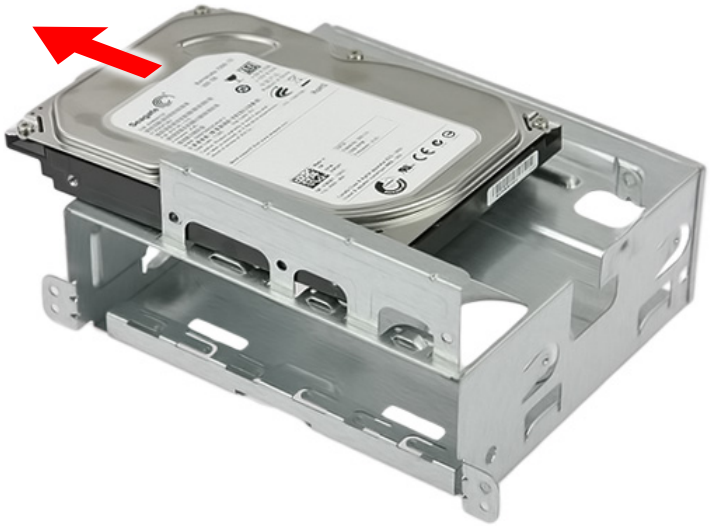
5. Remove the screws that secure the optical drive to the HDD-ODD bracket.

6. Pull the optical drive out of the drive bay.

7. Remove the four screws that secure the hard disk drive to the HDD bracket.



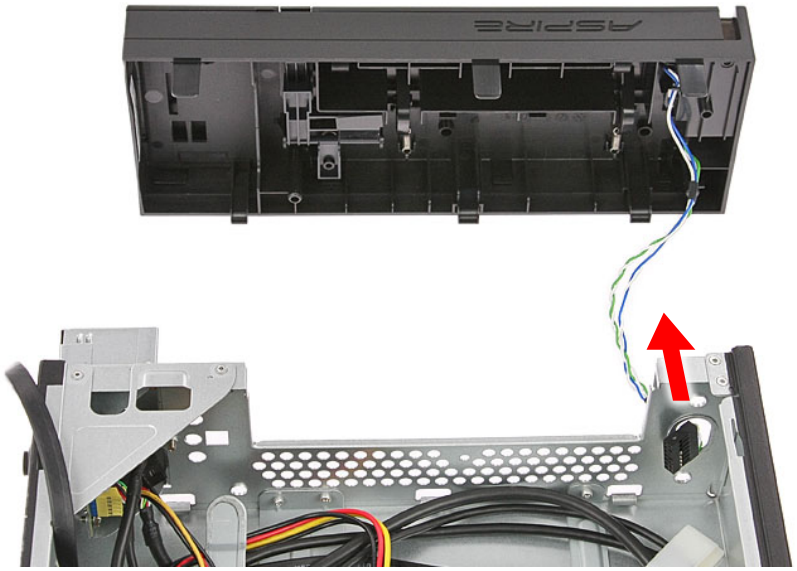
8. Slide the hard disk drive out of the bracket.



Detaching the Front Bezel

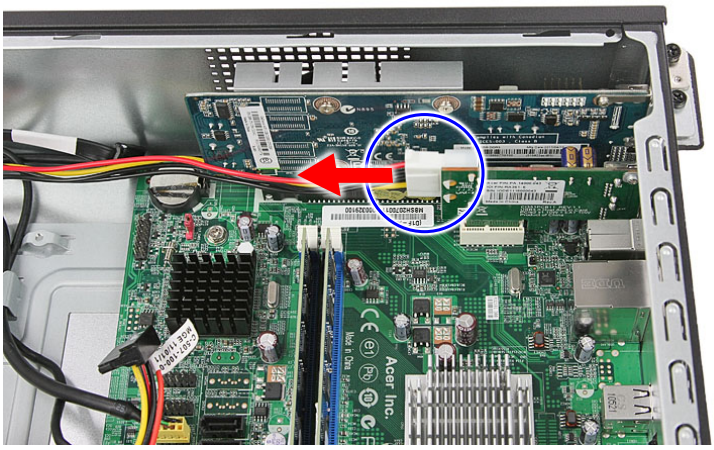
1. Disconnect the power button/LED cable from its mainboard connector.

2. Pull out the power button/LED cable from the chassis.

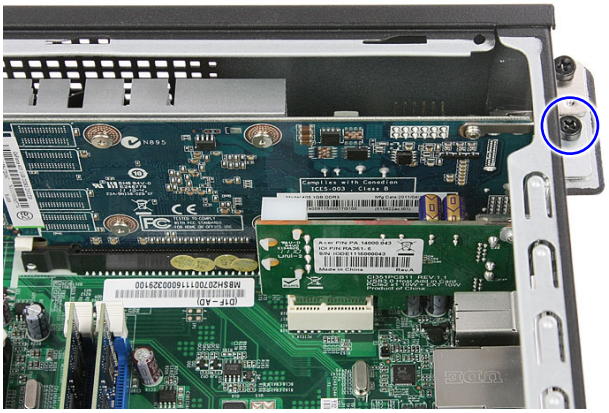


Removing the Expansion Boards

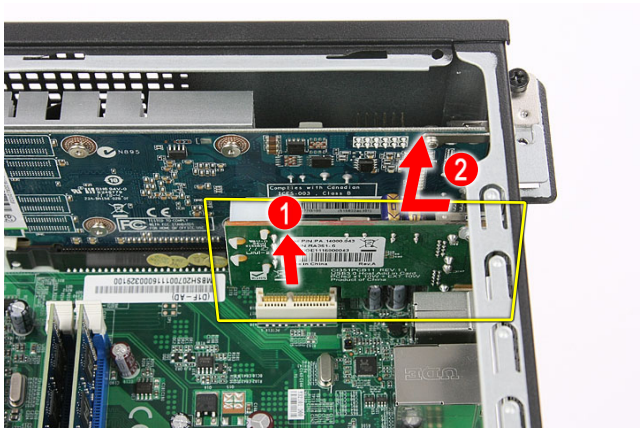
1. Remove the power cable from the optional USB 3.0 Host Add in Card.



2. Remove the screw from the expansion board bracket opposite the PCIE1X 1 slot.

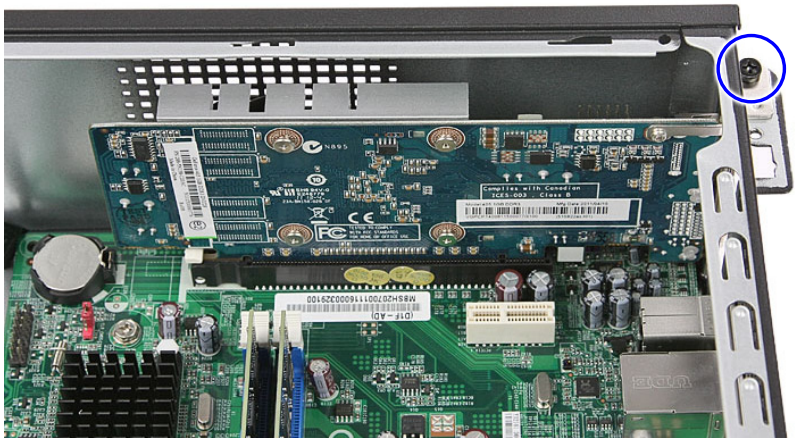


3. Gently pull up the expansion board (**1**), move it slightly to the left and remove (**2**) from the slot.

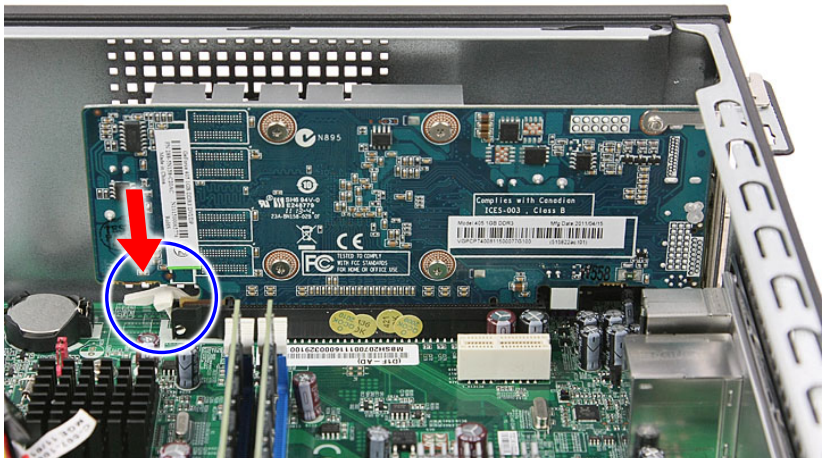


Note: Circuit boards >10 cm2 has been highlighted with the yellow rectangle as above image shows. Please detach the Circuit boards and follow local regulations for disposal.

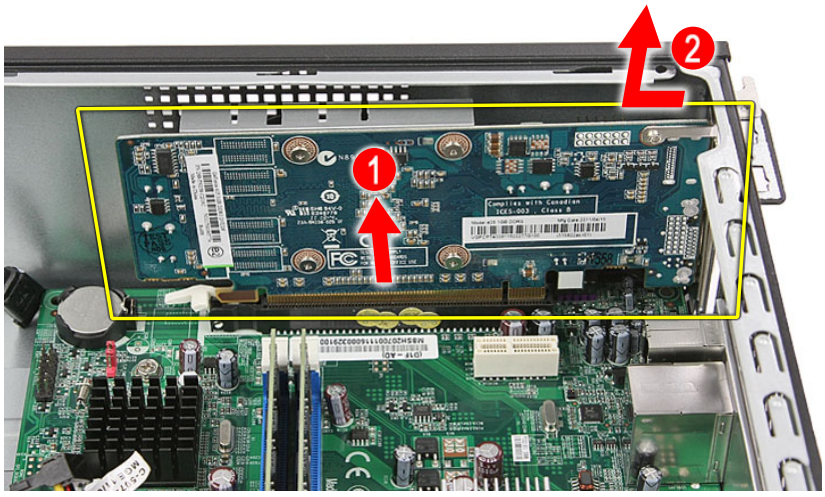
4. Remove the screw from the expansion board bracket opposite the PCIE16X 1 slot.



5. Push to open the expansion slot lock in the direction indicated.



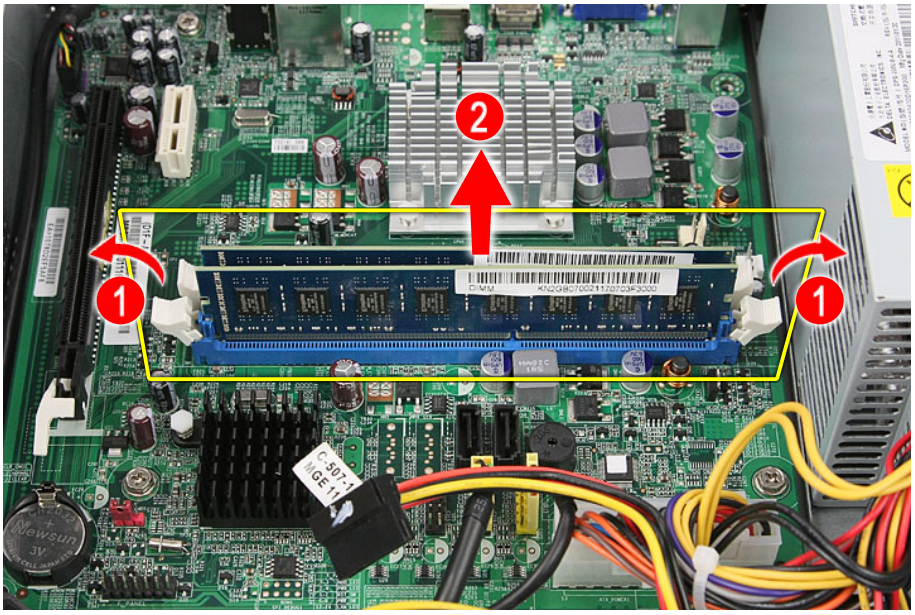
Gently pull up the expansion board (**1**), move it slightly to the left and remove (**2**) from the slot.



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.

Removing the Memory Modules

1. Press to open the holding clips (**1**) securing the memory module.
2. Gently pull the memory module upward (**2**) to remove it from the DIMM1 slot.

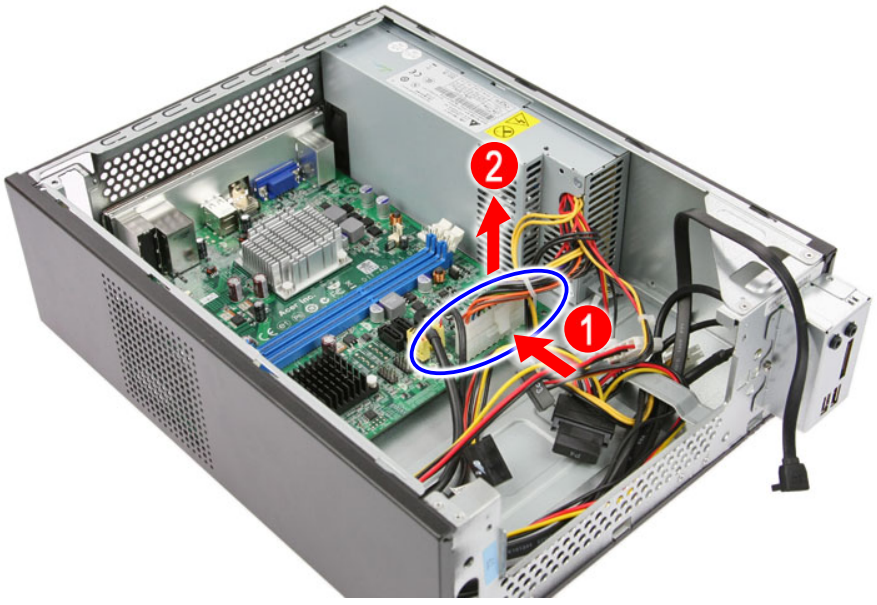


Note: Circuit boards >10 cm2 has been highlighted with the yellow rectangle as above image shows. Please detach the Circuit boards and follow local regulations for disposal.

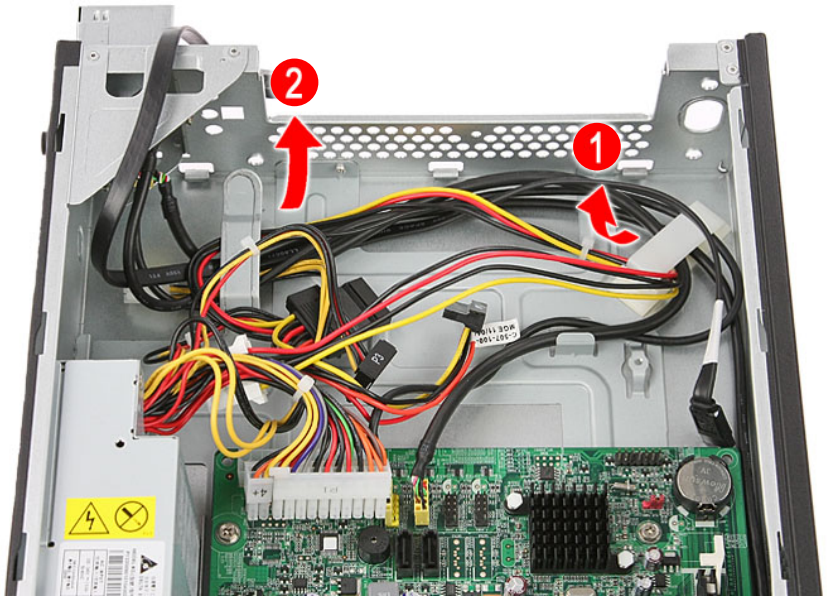
3. Repeat steps 1 and 2 to remove the second memory module from the DIMM2 slot.

Removing the Power Supply Unit

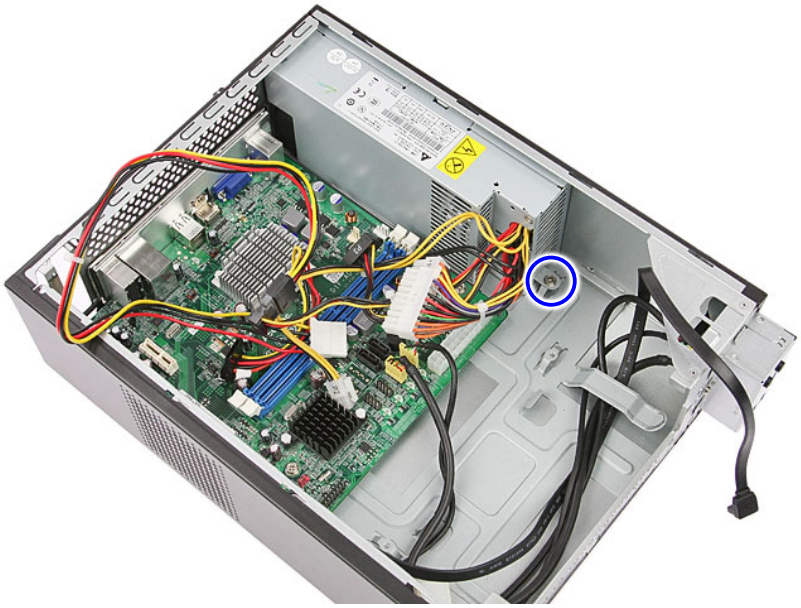
1. Disconnect the ATX power supply cables from its mainboard connector.
   a. Squeeze on the retaining latch (**1**) attached to the cable end of the connector.
   b. Grasp the cable end of the connector and pull it straight up (**2**).



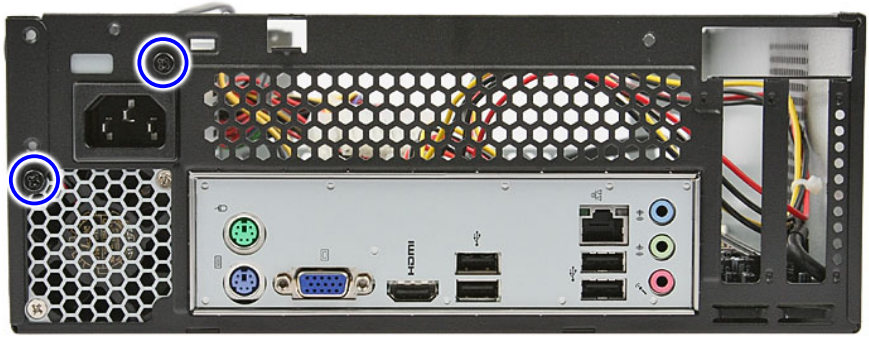
2. Open the plastic clip (**1**) and release the power cables from the metal clip (**2**) in the direction indicated.



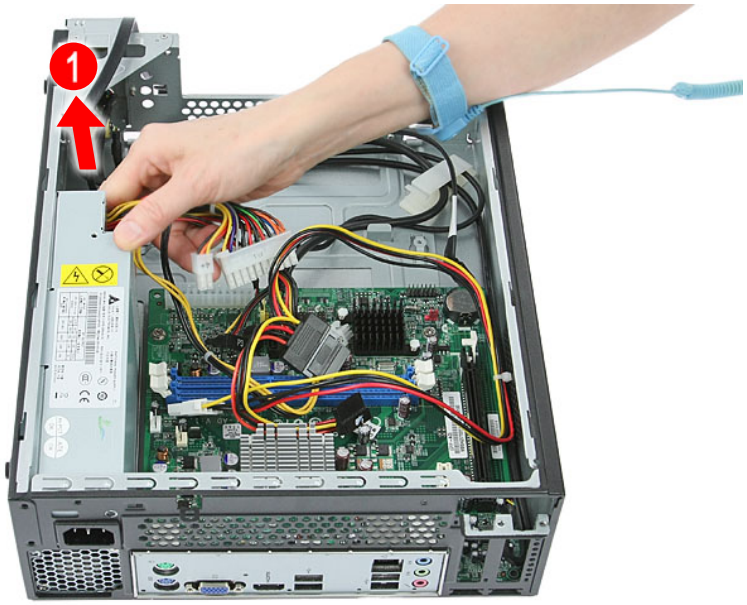
3. Remove the screw that secures the power supply to the chassis.



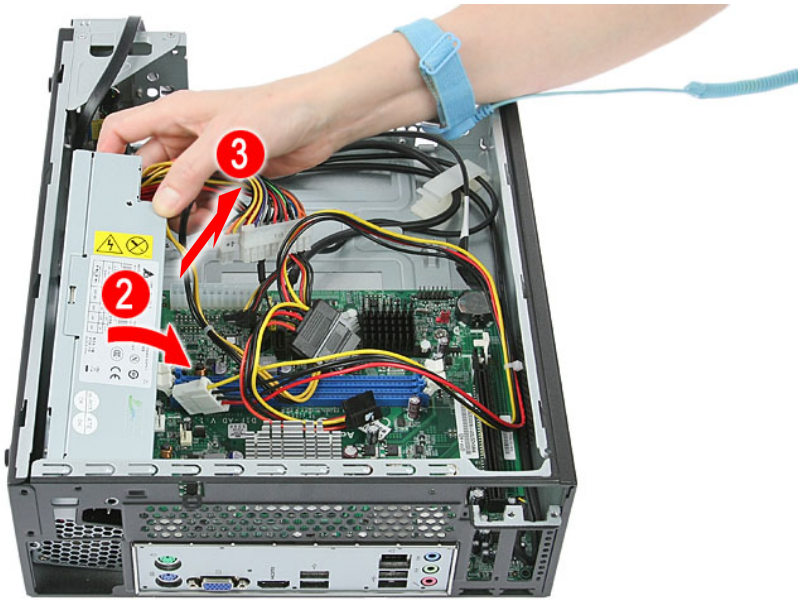
4. Remove the two screws that secure the power supply to the rear panel.



5. Push the power supply module toward the front.

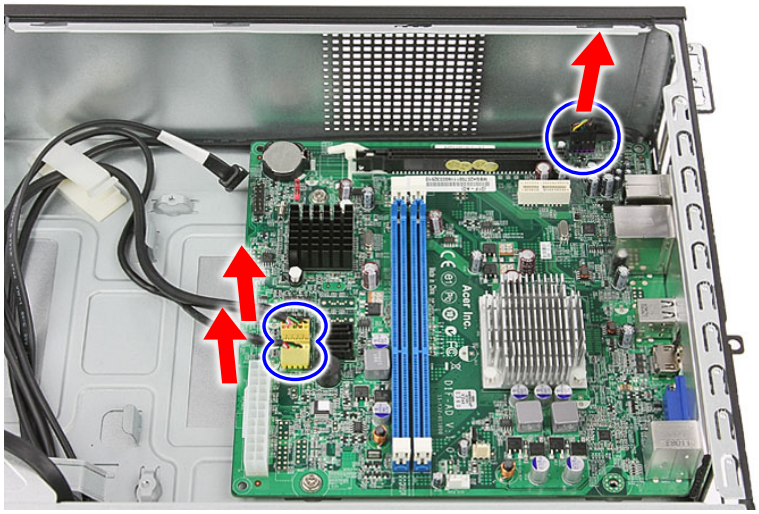


6. Tilt the power supply module slightly to the right and lift it out of the chassis.

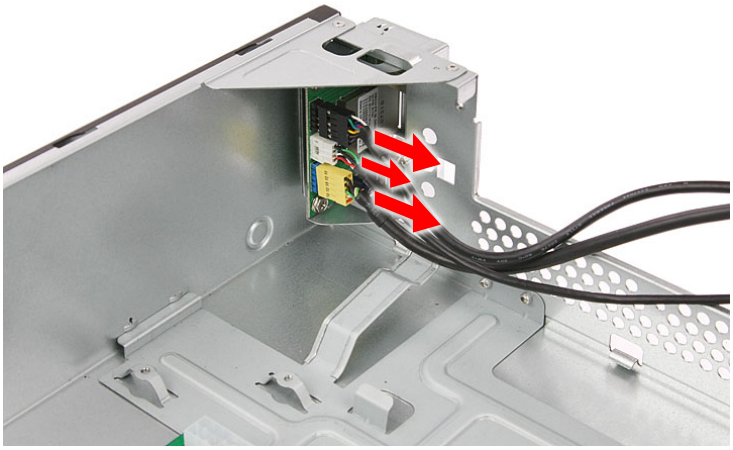


Removing the Front I/O and Optional Card Reader Assembly

1. Disconnect the front I/O and optional card reader cables from their mainboard connectors.

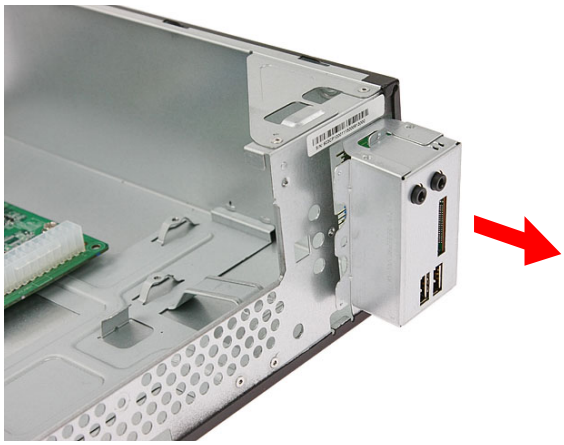


2. Detach the cables from the front I/O and optional card reader. Remove the cables.



3. Remove the screw that secures the bracket to the chassis.

4. Pull the bracket out from the chassis.



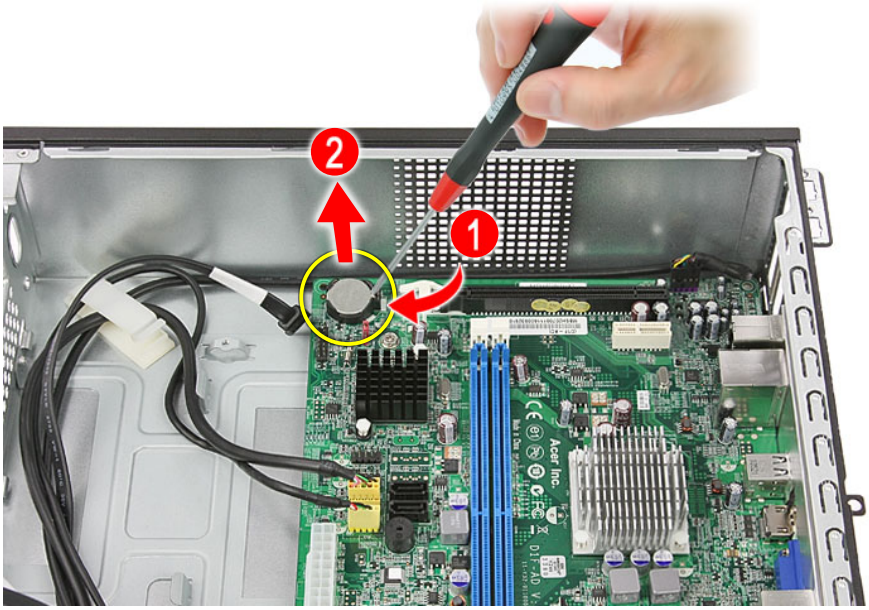
5. Remove the two screws that secure the front I/O and card reader assembly to the bracket.

6. Remove the front I/O and card reader assembly from the bracket.

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.

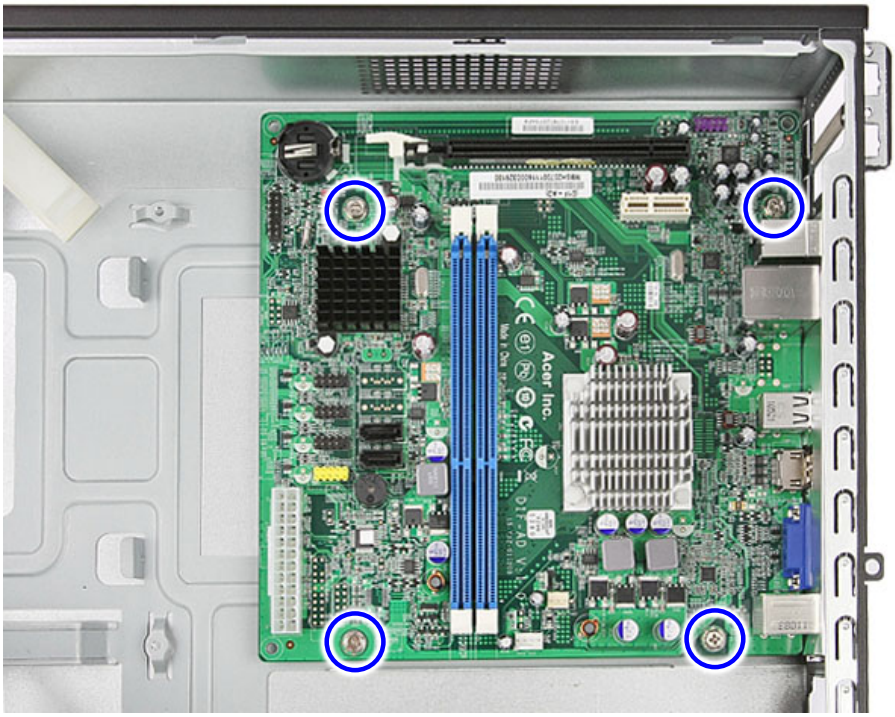
Removing the Mainboard

1. Insert a flat-blade screwdriver into the battery holder (**1**) as shown. Remove the RTC battery (**2**).

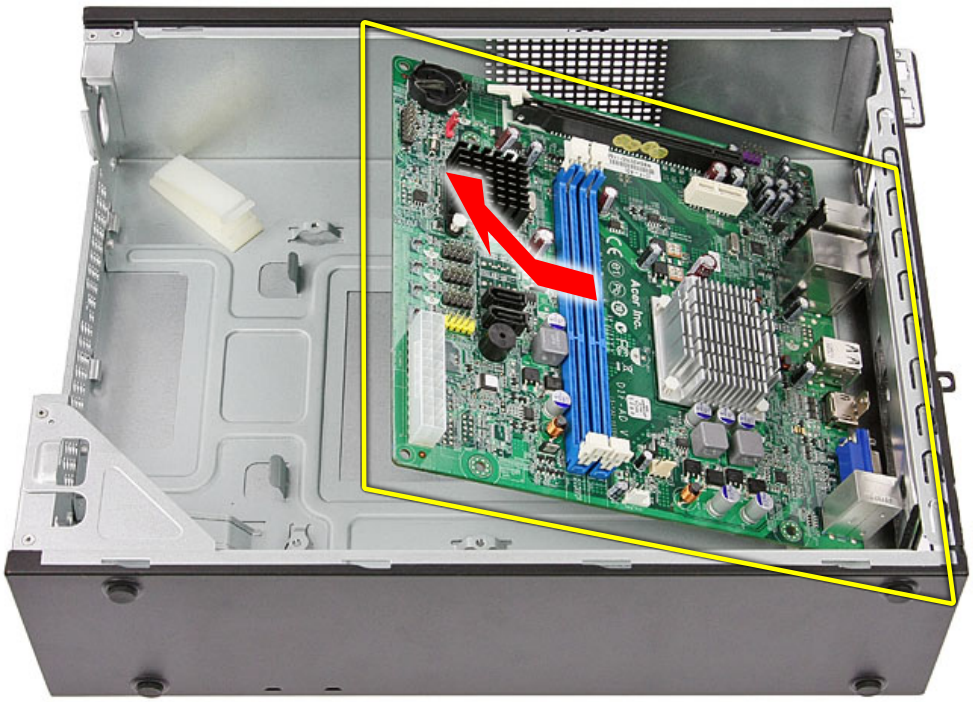


Note: The RTC battery has been highlighted with a yellow circle as shown above. Please follow local regulations for disposal of used RTC batteries.

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



3. Lift the mainboard from the chassis.



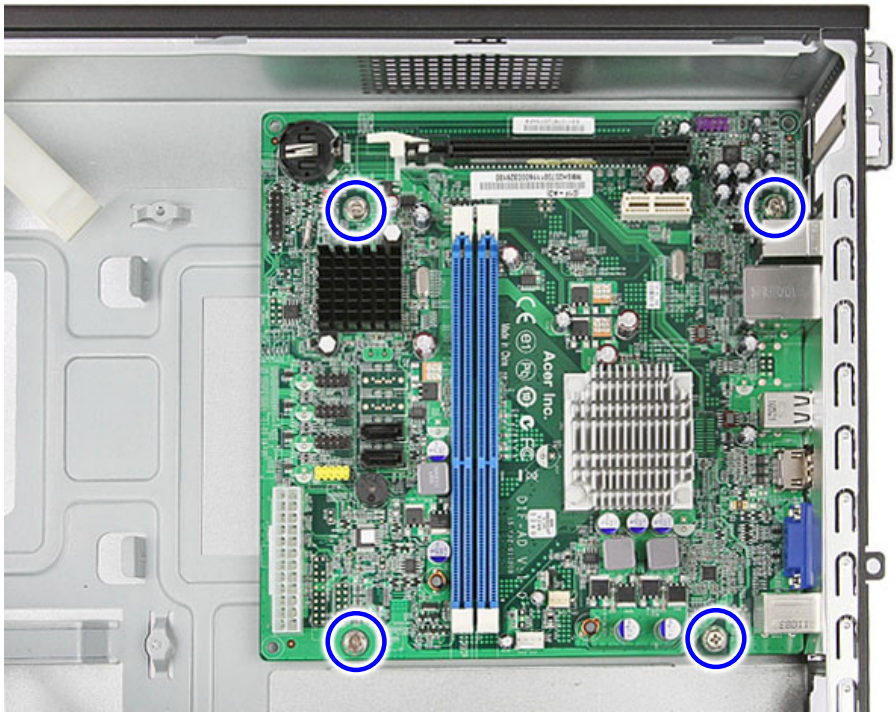
Note: Circuit boards >10 cm2 has been highlighted with the yellow rectangle as above image shows. Please detach the Circuit boards and follow local regulations for disposal.

Reassembly Procedures

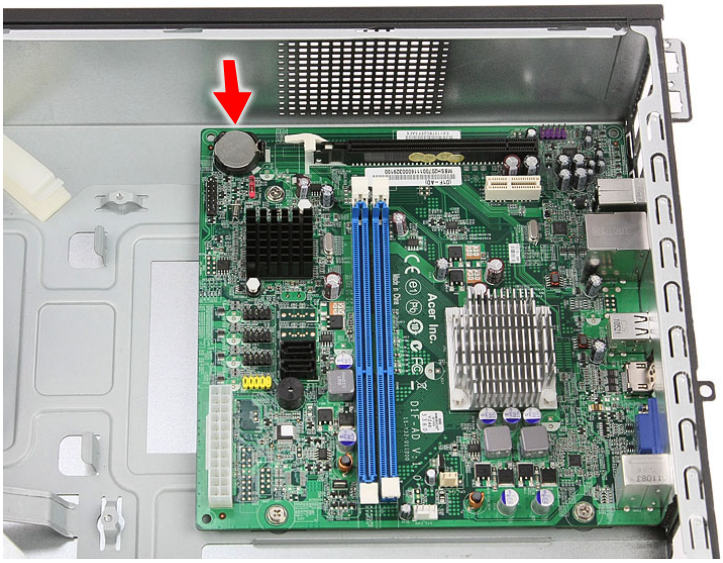
Reinstalling the Mainboard

1. Slide the mainboard into the chassis, with the I/O ports of the mainboard extruding from their port holes, then lower the mainboard in place.

2. Make sure the screw holes on the main board are aligned with those on the chassis. Secure the mainboard with four screws.



3. Install the RTC battery into the battery holder on the mainboard..

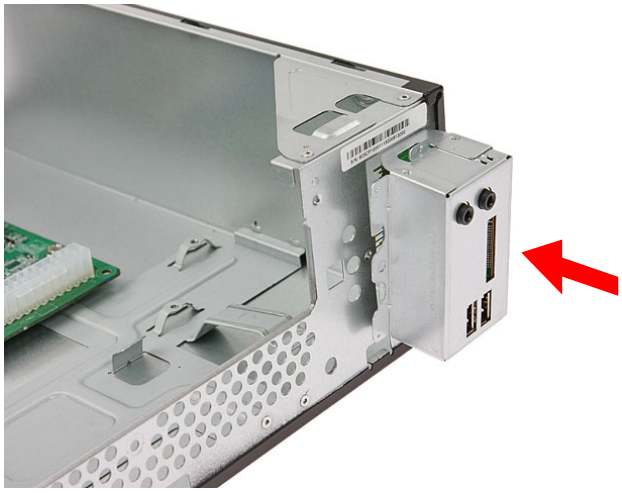


Reinstalling the Front I/O and Optional Card Reader Assembly

1. Insert the front I/O and card reader assembly into the bracket.

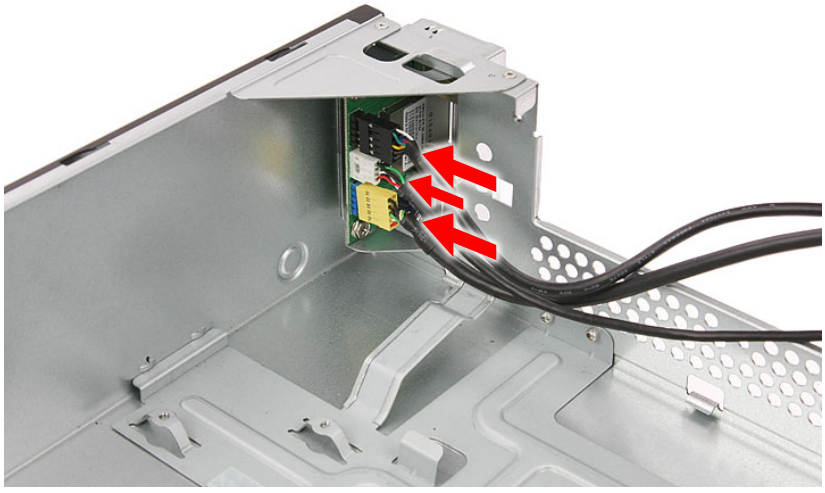
2. Secure the front I/O and card reader assembly to the bracket using two screws.

3. Install the bracket into the chassis.

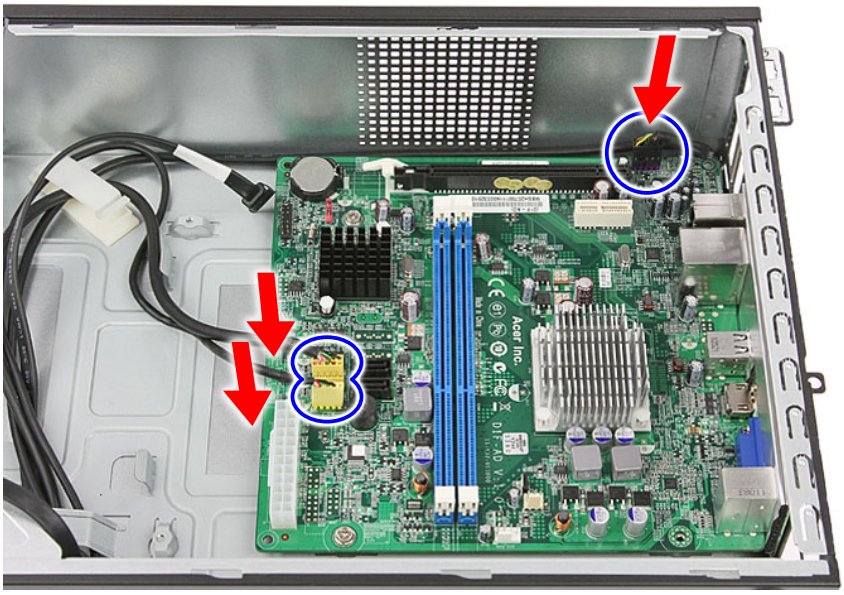


4. Secure the bracket to the chassis with one screw.

5. Connect the cables to the front I/O and optional card reader assembly. .

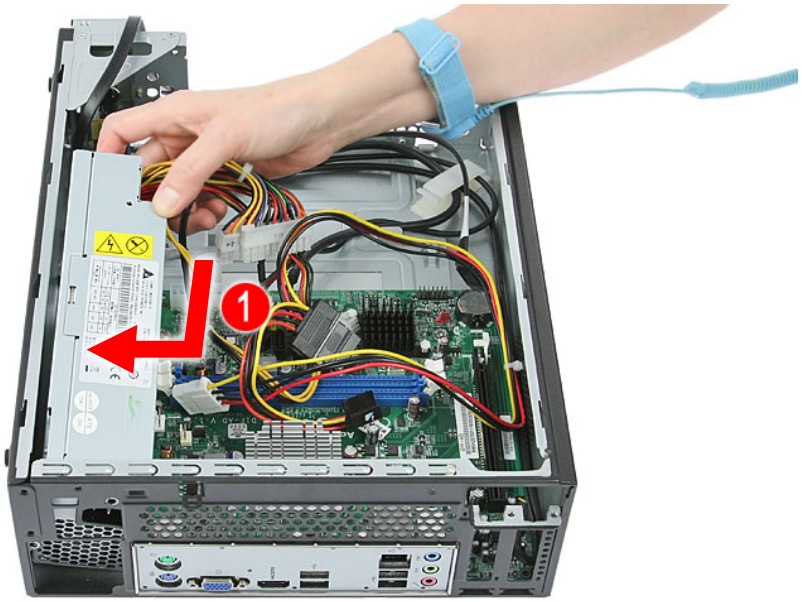


6. Connect the front I/O and optional card reader cables to their mainboard connectors.

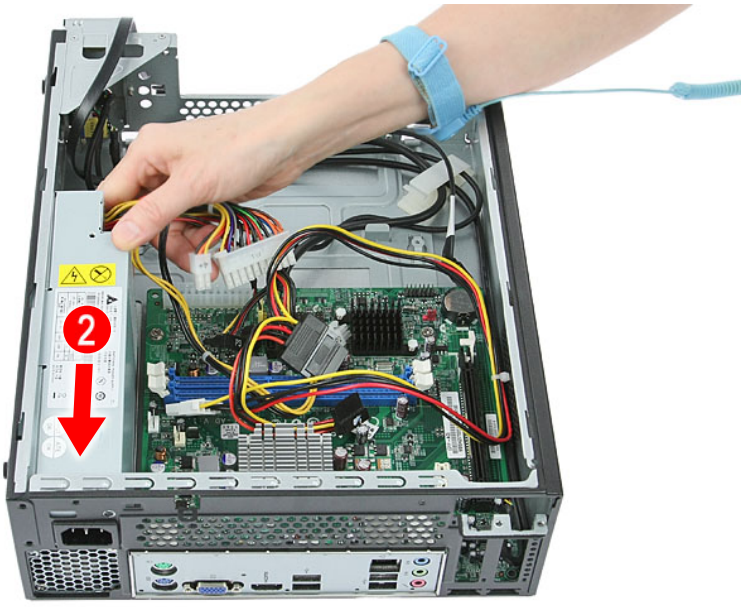


Reinstalling the Power Supply Unit

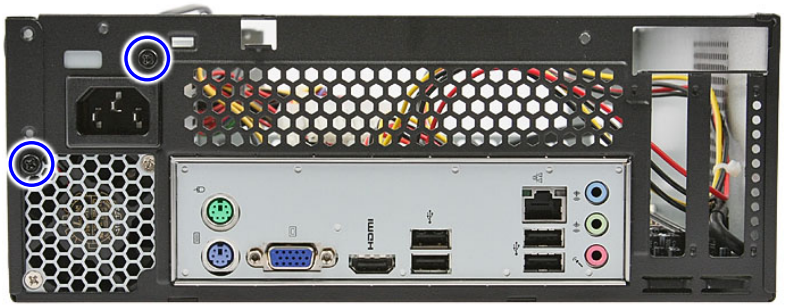
1. Slide the power supply module into the chassis (1) and tilt to the left (2).



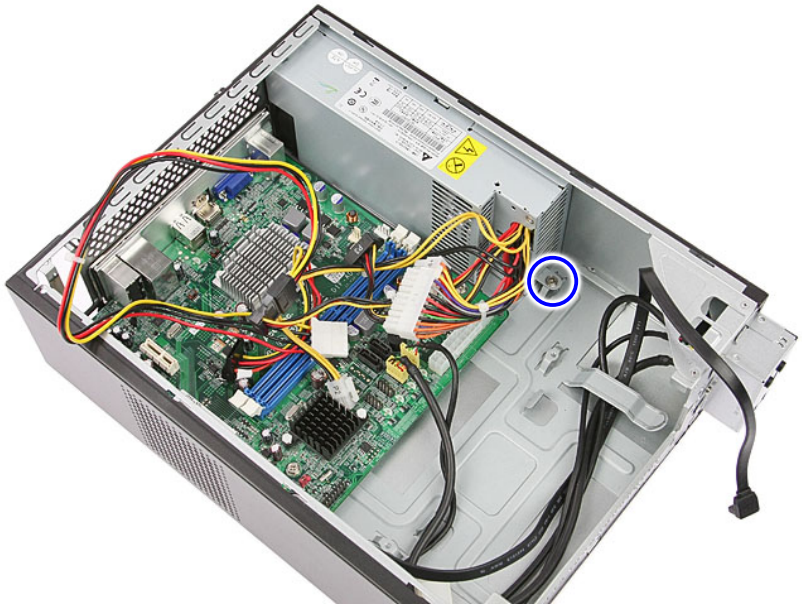
2. Push the power supply module toward the rear (**3**), with the power connector extruding from the rear panel.



3. Secure the power supply to the rear panel using two screws.

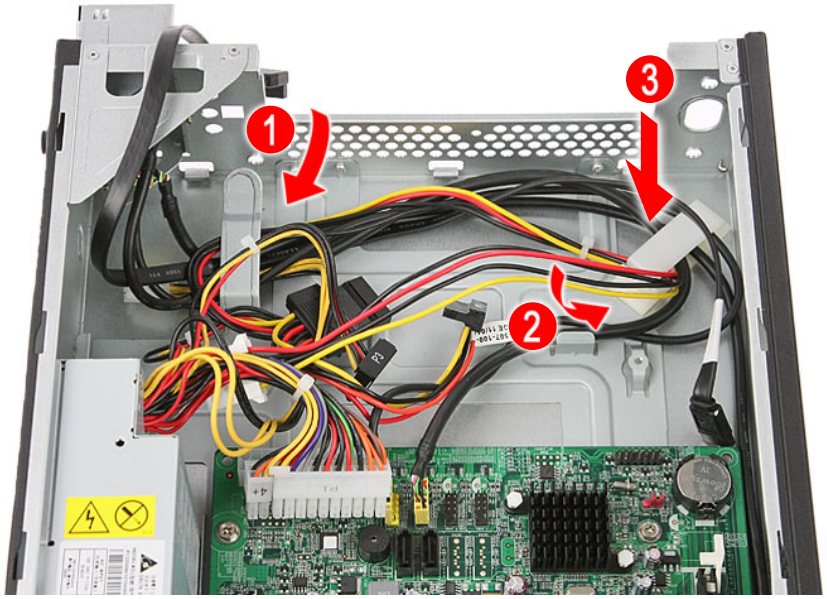


4. Secure the power supply to the chassis using one screw.



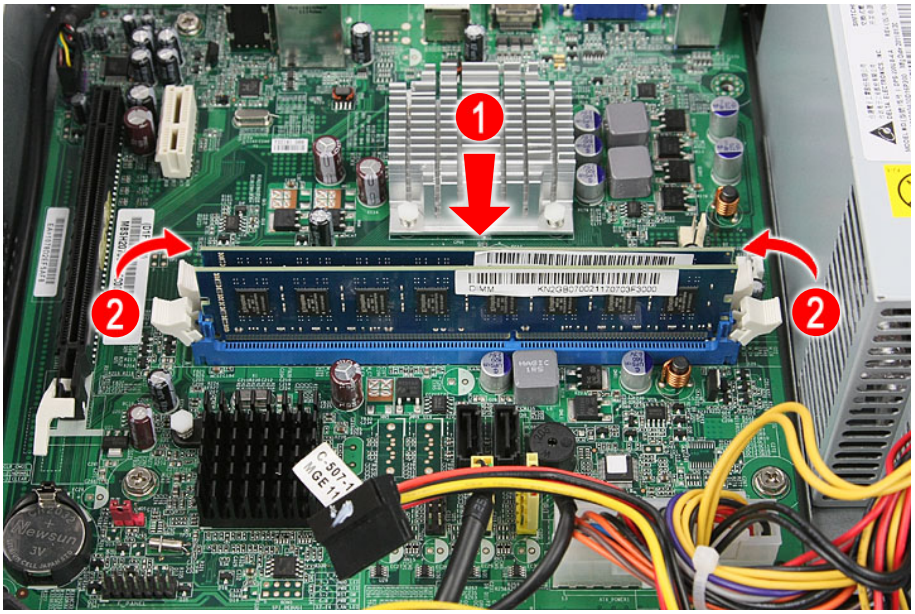
5. Connect the ATX power supply cables to its mainboard connector.

6. Insert all cables into the metal clip (**1**) and plastic clip (**2**). Press to close the plastic clip (**3**). Make sure that all cables are arranged properly and lay as close as possible to the chassis to facilitate the re-installation of the HDD-ODD bracket later.



Installing the Memory Modules

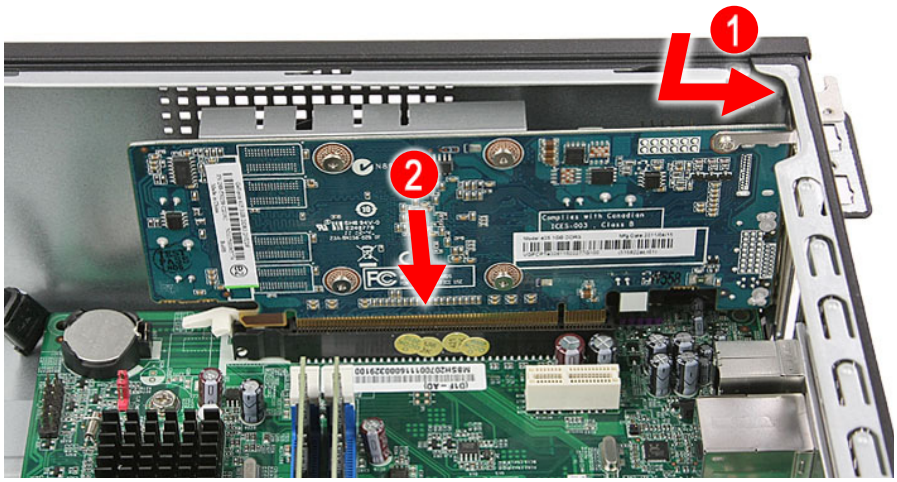
1. Insert the memory module into the DIMM1 slot (**1**) and then press it down until it clicks into place (**2**).



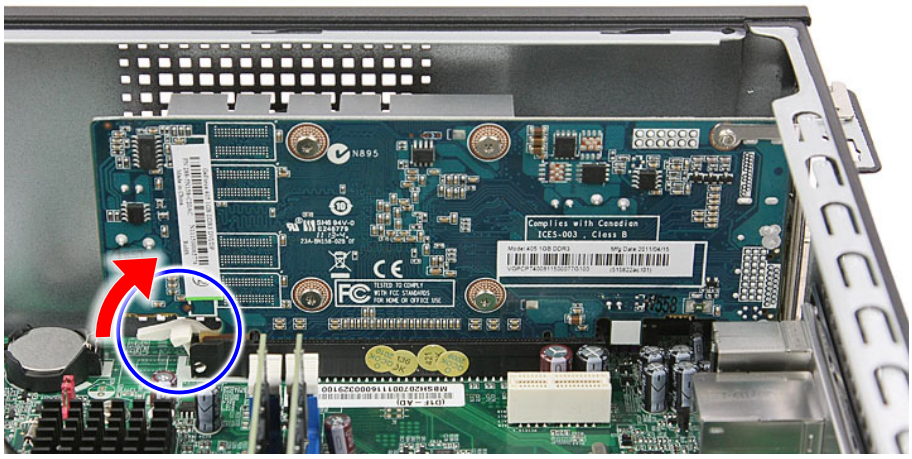
2. If a second memory module is available, install it in the DIMM2 slot by repeating step 1..

Installing the Expansion Boards

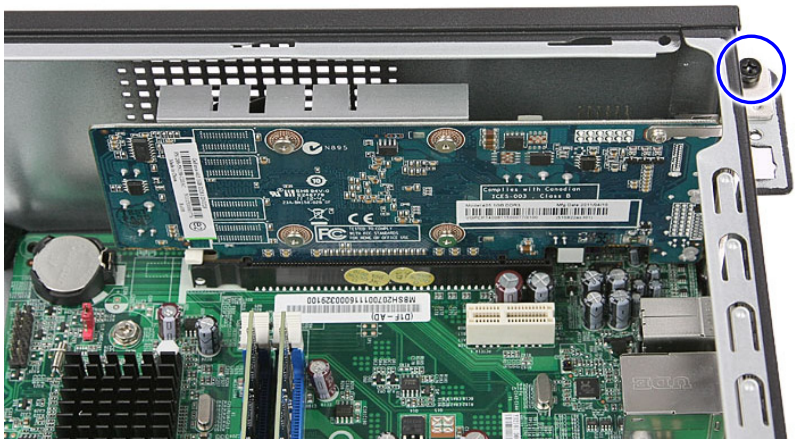
1. Position the expansion board over the PCIE16X 1 slot and move it slightly to the right (**1**), making sure the card guide is aligned with the slot guide on the chassis. Insert the expansion card properly connector into PCIE16X 1 slot (**2**).



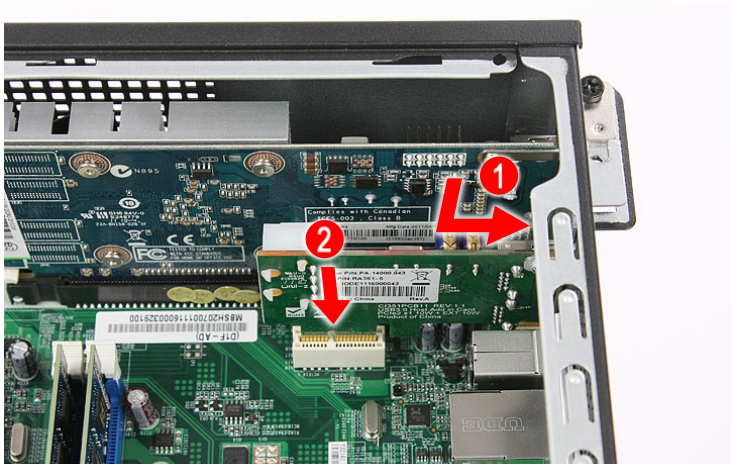
2. Insert the expansion board properly until that expansion slot lock locks into place in the direction indicated.



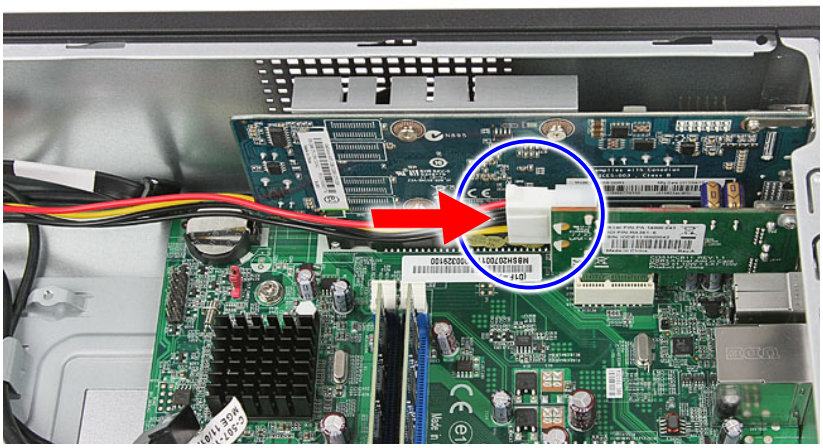
3. Secure the expansion board bracket opposite the PCIE16X 1 slot using one screw.



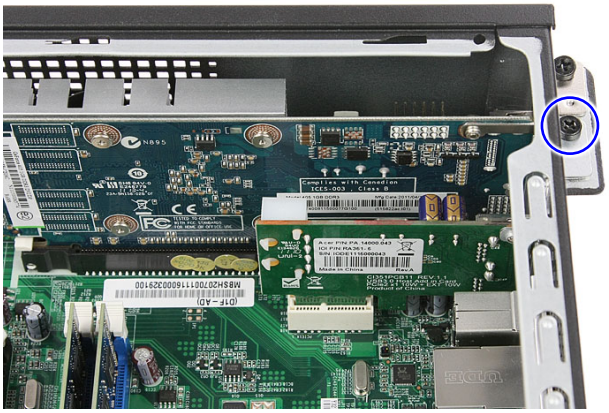
4. Position the expansion board over the PCIE1X 1 slot and move it slightly to the right (**1**), making sure the card guide is aligned with the slot guide on the chassis. Insert the expansion card connector properly into PCIE1X 1 slot (**2**).



5. Connect the power cable to the optional USB 3.0 Host Add in Card.

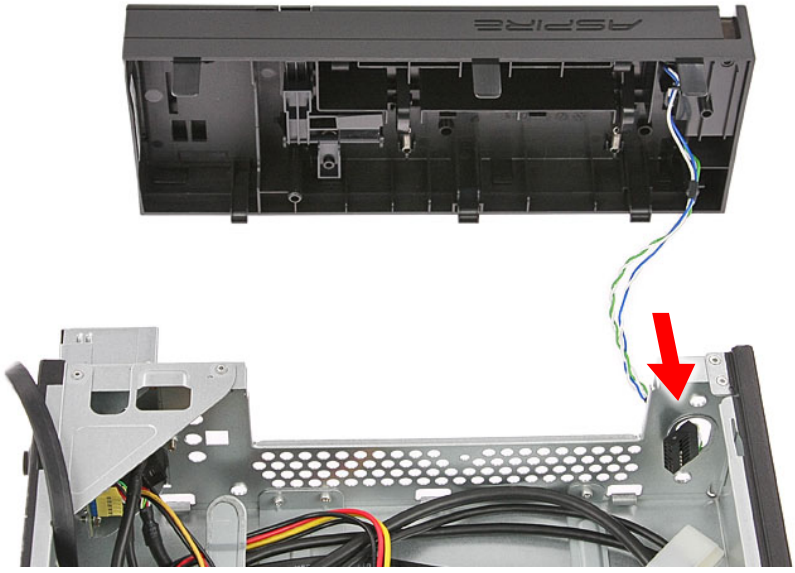


6. Secure the expansion board bracket opposite the PCIE1X 1 slot using one screw.



Reinstalling the Front Bezel Power Button/LED Cable

1. Insert the power button/LED cable through the front of the chassis.



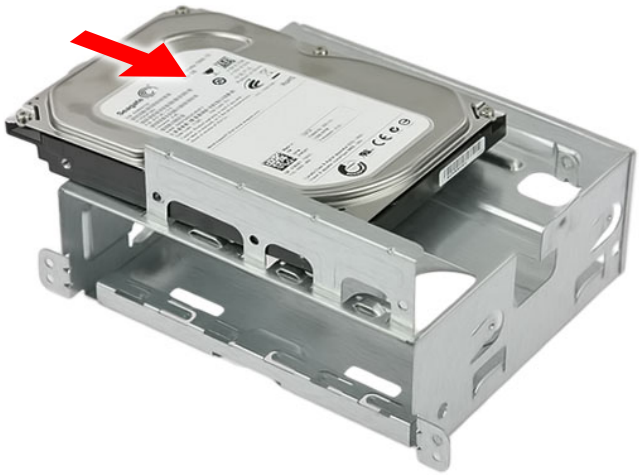
2. Connect the power button/LED cable to its mainboard connector.

Reinstalling the Optical Drive and the Hard Disk Drive

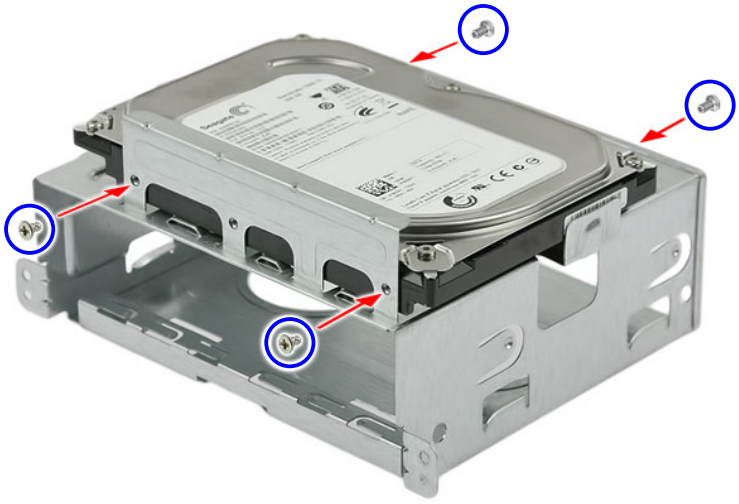
1. Slide the optical drive into the drive bay.

2. Secure the optical drive to the HDD-ODD bracket using two screws.

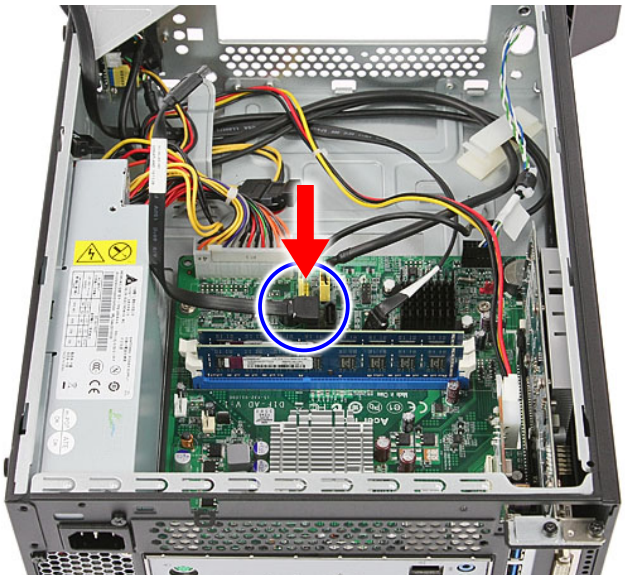
3. Slide the hard disk drive into the drive bay.



4. Secure the hard disk drive to the HDD-ODD bracket using four screws.



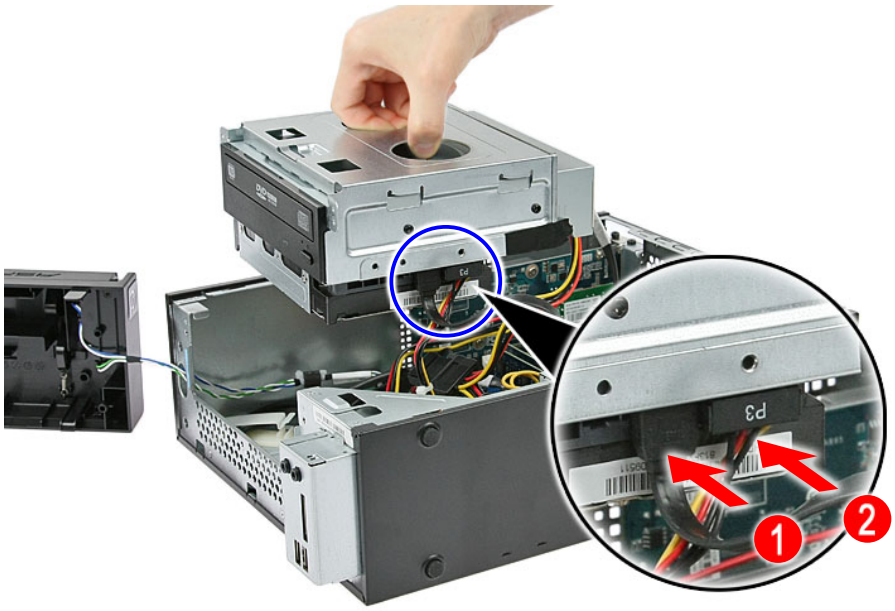
5. Connect one end of the SATA cable to the SATA2 connector on the mainboard.



6. Connect the power (**1**) and SATA (**2**) cables to their connectors on the rear of the hard disk drive.

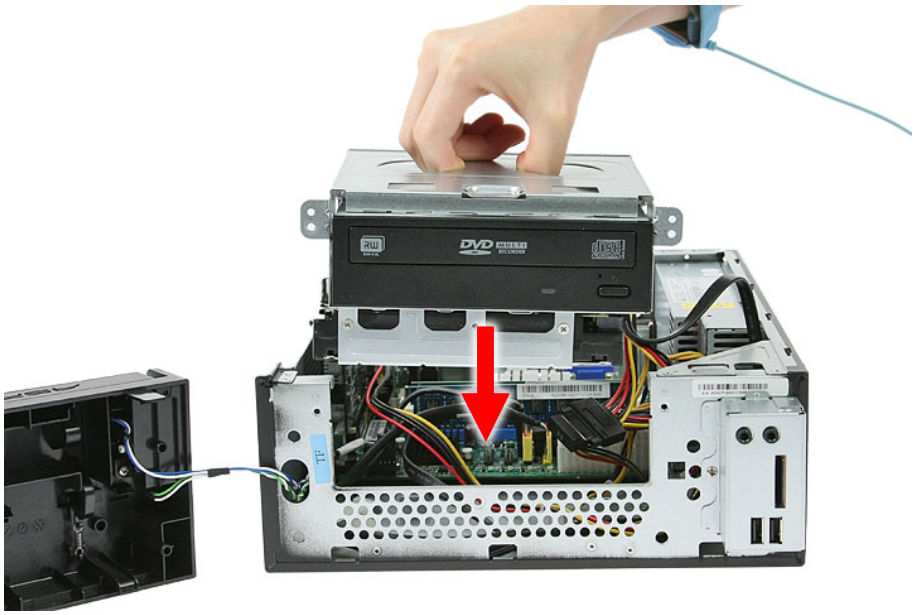
7. Connect one end of the SATA cable to the SATA1 connector on the mainboard.

8. Connect the SATA (**1**) and power (**2**) cables to their connectors on the rear of the optical drive.



Reinstalling the HDD-ODD Bracket

1. Install the HDD-ODD bracket into the chassis.

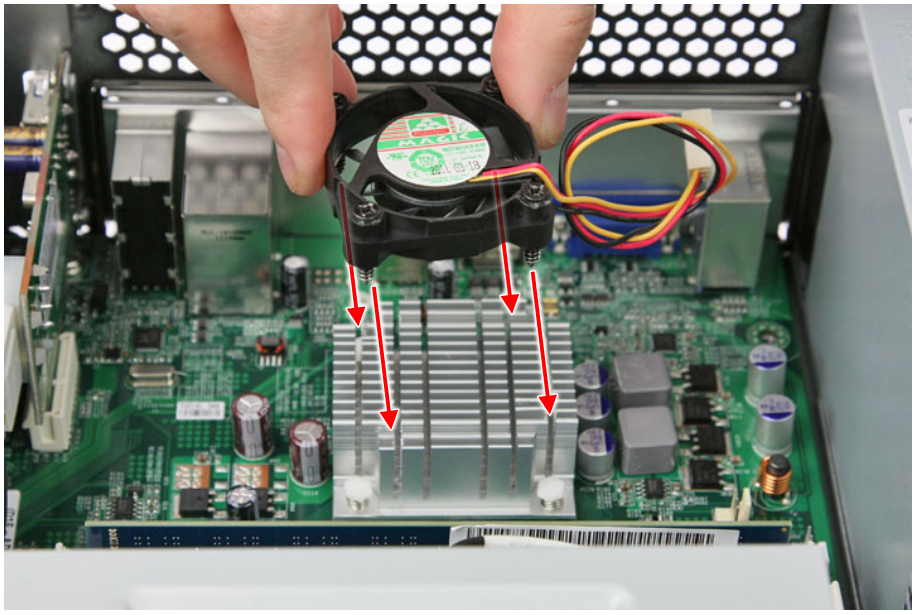


2. Secure the HDD-ODD bracket to the chassis using three screws.

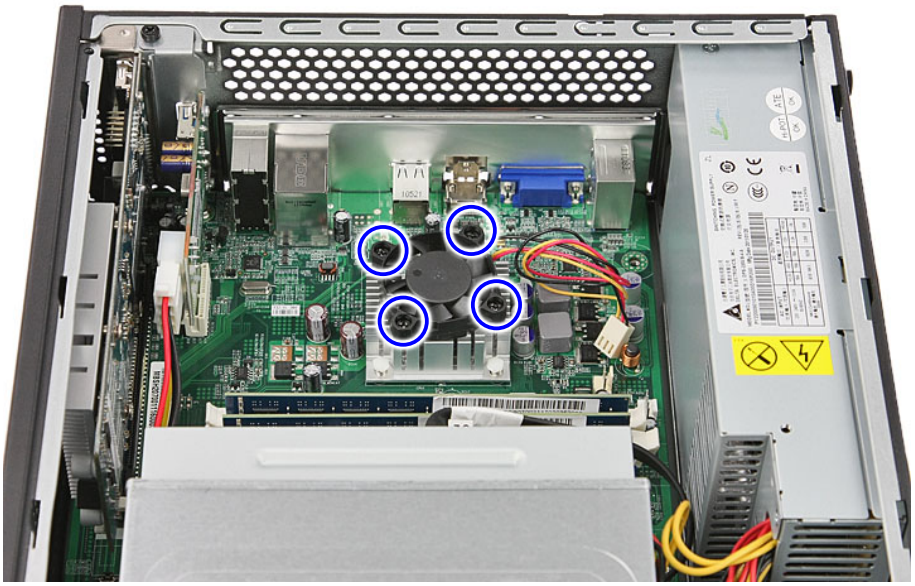
Reinstalling the Heat Sink Fan Assembly

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

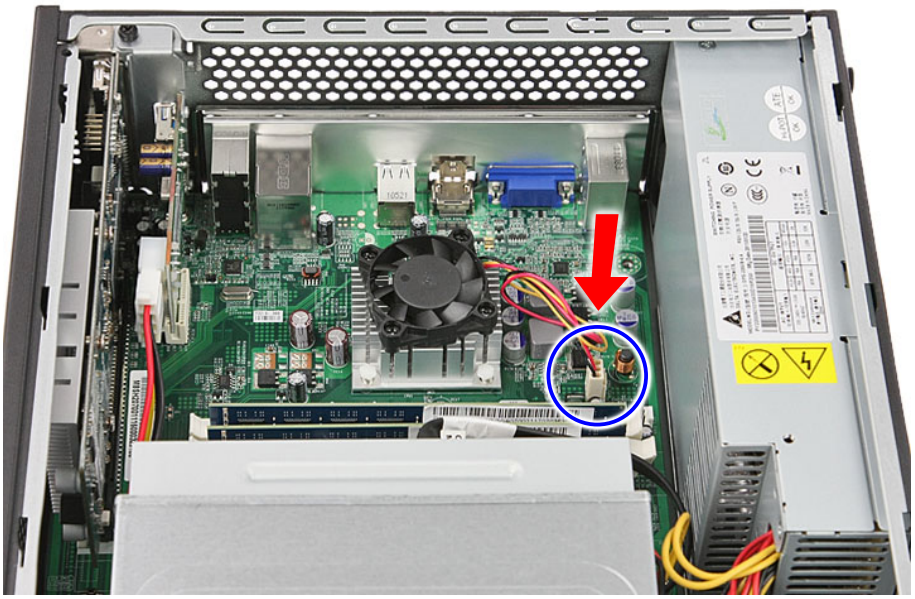
1. Position the heat sink fan assembly on top of the heatsink, making sure the screws are aligned with the gaps on the heat sink.



2. Secure the fan to the heat sink using four screws. DO NOT force the screws into the gaps as this may deform the heat sink fins.

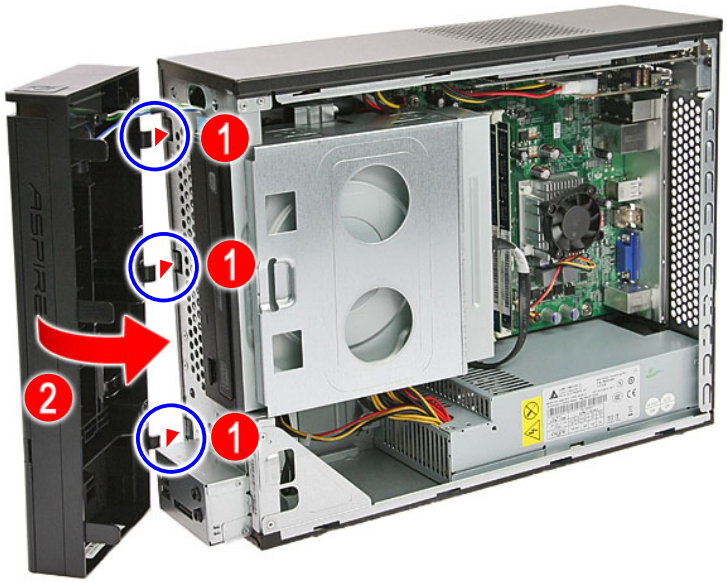


3. Connect the fan cable to its mainboard connector.

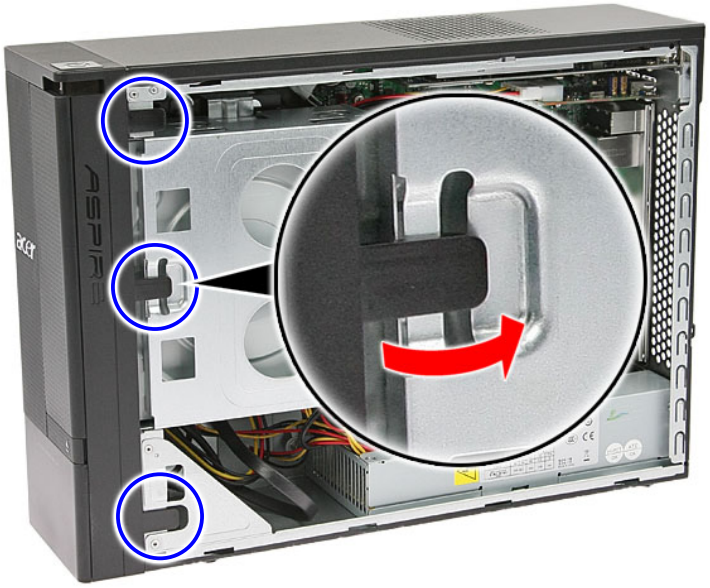


Reinstalling the Front Bezel

1. Insert the tabs on the front bezel into the notches (**1**) on the left side of the chassis and attach the front bezel (**2**) in the direction indicated. .

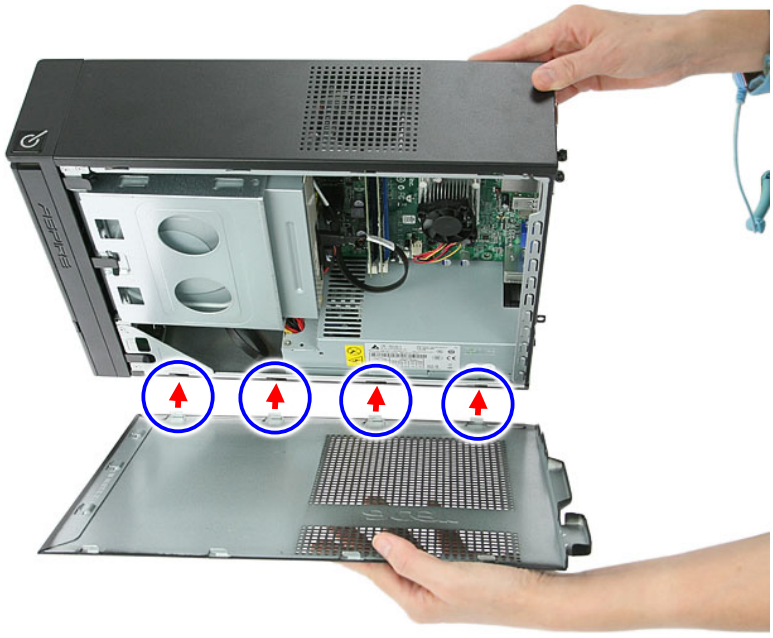


2. Make sure the front bezel retention tabs are securedly fastened to the chassis interior.

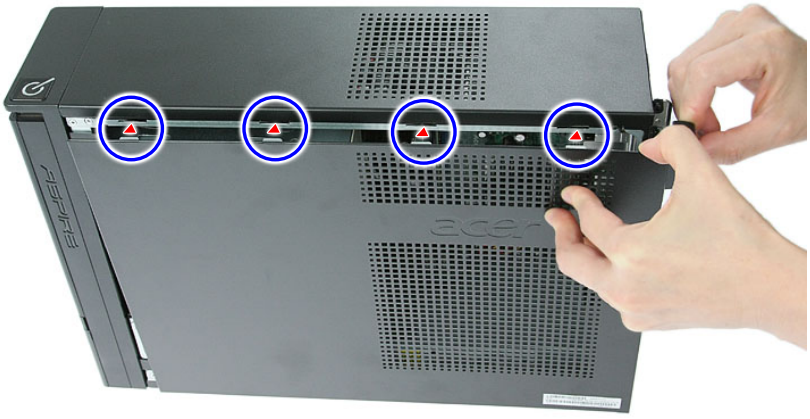


Reinstalling the Side Panel

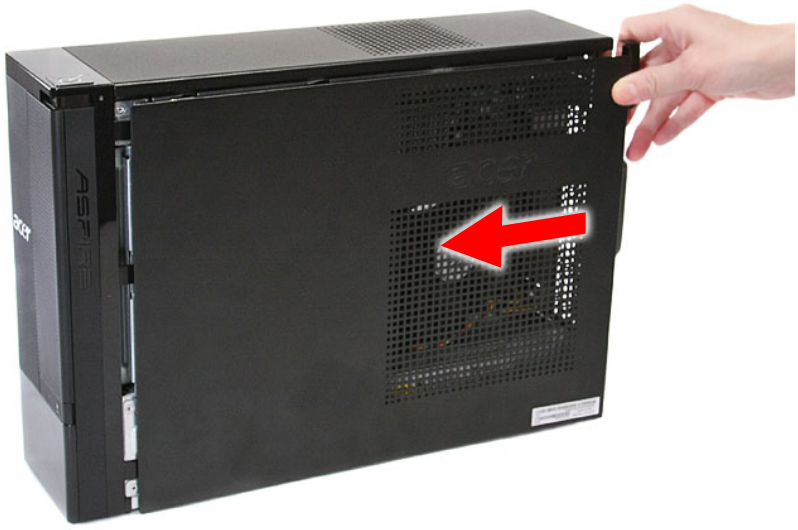
1. Align the tabs on the lower edge of the side panel with the notches on the bottom side of the chassis.



2. Align the tabs on the upper edge of the side panel with the notches on the top side of the chassis.



3. Push the side panel toward the front of the chassis until it is firmly closed.



4. Secure the side panel to the rear edge of the chassis using two screws.

Chapter 4

Troubleshooting

This chapter lists the POST error indicators and BIOS beep codes, as well general troubleshooting instructions.

Hardware Diagnostic Procedure

1. Obtain as much detail as possible about the symptoms of the system failure.
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” procedure on the next section and the “Beep Codes” section on page 74 to determine which corrective action to take.

System Check Procedures

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.

Power System Check

If the system can be powered on, skip this section. Proceed to the “System Internal Inspection” procedure on the next page.

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

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

System External Inspection

1. Inspect the power and LED indicators on the front panel. Go to “Front View” section on page 4 for the location and description of the LED behaviour.
2. Make sure that the ventilation slots on the rear panel are not blocked.
3. Make sure that there is no point of contact in the system that can cause a power short.

   If the cause of the failure is still can not be determined, perform the “System Internal Inspection” procedure described on the next page.

System Internal Inspection

1. Turn off the power to the computer and all peripherals.
2. Unplug the power cord from the computer.
3. Unplug the network cable and all connected peripheral devices from the computer.
4. Place the computer on a flat, steady surface.
5. Remove the side panel as described in page 22.
6. Verify that the processor, memory module(s), and expansion board(s) are properly seated.
7. Verify that all power and data cables are firmly and properly attached to the installed drives.
8. Verify that all cable connections inside the system are firmly and properly attached to their appropriate mainboard connectors.
9. Verify that all components are Acer-qualified and supported.
10. Reinstall the side panel.
11. Power on the system.

    If the cause of the failure is still can not be determined, review the POST messages and BIOS checkpoints during the system startup.

Checkpoints

A checkpoint is either a byte or word value output to I/O port 80h. The BIOS outputs checkpoints during 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.

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.

Boot Block Initialization Code Checkpoints

The boot block 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 boot block initialization portion of the BIOS.

Checkpoint	Description
Before D1	Early chipset initialization is done. Early super I/O initialization is done including RTC and keyboard controller. NMI is disabled.
D1	Perform keyboard controller BAT test. Check if waking up from power management suspend state. Save power-on CPUID value in scratch CMOS.
D0	Go to flat mode with 4GB limit and GA20 enabled. Verify the bootblock checksum.
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 512 KB memory. Adjust policies and cache first 8 MB. Set stack.

Checkpoint	Description
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 the “Boot Block 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 1 MB Read-Write including E000 and F000 shadow areas but closing SMRAM.
DA	Restore CPUID value back into register. Give control to BIOS POST (ExecutePOSTKernel). See the “POST Code Checkpoints” section for more information.

Boot Block Recovery Code Checkpoints

The boot block recovery code gets control when the BIOS determines that a BIOS recovery is required because the user has forced the update or the BIOS checksum is corrupt. Refer to “BIOS Recovery” section on page 75 for more information. The following table describes the type of checkpoints that may occur during the boot block recovery portion of the BIOS.

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.
E9 or EA	Determine information about root directory of recovery media.
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.

POST Code Checkpoints

The POST code checkpoints are the largest set of checkpoints during the BIOS preboot process. The following table describes the type of checkpoints that may occur during the POST portion of the BIOS.

Checkpoint	Description
03	Disable NMI, Parity, video for EGA, and DMA controllers. Initialize BIOS, POST, Runtime data area. Also initialize BIOS modules on POST entry and GPNV area. Initialized CMOS as mentioned in the Kernel Variable "wCMOSFlags."
04	Check CMOS diagnostic byte to determine if battery power is OK and CMOS checksum is OK. Verify CMOS checksum manually by reading storage area. If the CMOS checksum is bad, update CMOS with power-on default values and clear passwords. Initialize status register A. Initializes data variables that are based on CMOS setup questions. Initializes both the 8259 compatible PICs in the system
05	Initializes the interrupt controlling hardware (generally PIC) and interrupt vector table.
06	Do R/W test to CH-2 count reg. Initialize CH-0 as system timer.Install the POSTINT1Ch handler. Enable IRQ-0 in PIC for system timer interrupt. Traps INT1Ch vector to "POSTINT1ChHandlerBlock."
08	Initializes the CPU. The BAT test is being done on KBC. Program the keyboard controller command byte is being done after Auto detection of KB/MS using AMI KB-5.
0A	Initializes the 8042 compatible Key Board Controller.
0B	Detects the presence of PS/2 mouse.
0C	Detects the presence of Keyboard in KBC port.
0E	Testing and initialization of different Input Devices. Also, update the Kernel Variables. Traps the INT09h vector, so that the POST INT09h handler gets control for IRQ1. Uncompress all available language, BIOS logo, and Silent logo modules.
13	Early POST initialization of chipset registers.
24	Uncompress and initialize any platform specific BIOS modules. GPNV is initialized at this checkpoint.
30	Initialize System Management Interrupt.
2A	Initializes different devices through DIM. See DIM Code Checkpoints section for more information.
2C	Initializes different devices. Detects and initializes the video adapter installed in the system that have optional ROMs.
2E	Initializes all the output devices.
31	Allocate memory for ADM module and uncompress it. Give control to ADM module for initialization. Initialize language and font modules for ADM. Activate ADM module.
33	Initializes the silent boot module. Set the window for displaying text information.
37	Displaying sign-on message, CPU information, setup key message, and any OEM specific information.
38	Initializes different devices through DIM. See DIM Code Checkpoints section for more information. USB controllers are initialized at this point.
39	Initializes DMAC-1 & DMAC-2.
3A	Initialize RTC date/time.
3B	Test for total memory installed in the system. Also, Check for DEL or ESC keys to limit memory test. Display total memory in the system.

Checkpoint	Description
3C	Mid POST initialization of chipset registers.
40	Detect different devices (Parallel ports, serial ports, and coprocessor in CPU, ... etc.) successfully installed in the system and update the BDA, EBDA…etc.
50	Programming the memory hole or any kind of implementation that needs an adjustment in system RAM size if needed.
52	Updates CMOS memory size from memory found in memory test. Allocates memory for Extended BIOS Data Area from base memory. Programming the memory hole or any kind of implementation that needs an adjustment in system RAM size if needed.
60	Initializes Num-Lock status and programs the KBD typematic rate.
75	Initialize Int-13 and prepare for IPL detection.
78	Initializes IPL devices controlled by BIOS and option ROMs.
7A	Initializes remaining option ROMs.
7C	Generate and write contents of ESCD in NVRam.
84	Log errors encountered during POST.
85	Display errors to the user and gets the user response for error.
87	Execute BIOS setup if needed / requested. Check boot password if installed.
8C	Late POST initialization of chipset registers.
8E	Program the peripheral parameters. Enable/Disable NMI as selected.
90	Late POST initialization of system management interrupt.
A0	Check boot password if installed.
A1	Clean-up work needed before booting to OS.
A2	Takes care of runtime image preparation for different BIOS modules. Fill the free area in F000h segment with 0FFh. Initializes the Microsoft IRQ Routing Table. Prepares the runtime language module. Disables the system configuration display if needed.
A4	Initialize runtime language module. Display boot option popup menu.
A7	Displays the system configuration screen if enabled. Initialize the CPU's before boot, which includes the programming of the MTRR's.
A8	Prepare CPU for OS boot including final MTRR values.
A9	Wait for user input at config display if needed.
AA	Uninstall POST INT1Ch vector and INT09h vector. Deinitializes the ADM module.
AB	Prepare BBS for Int 19 boot.
AC	End of POST initialization of chipset registers.
B1	Save system context for ACPI.
00	Passes control to OS Loader (typically INT19h).

DIM Code Checkpoints

The Device Initialization Manager (DIM) gets control at various times during BIOS POST to initialize different system busses. The following table describes the main checkpoints where the DIM module is accessed.

Checkpoint	Description
2A	Initialize different buses and perform the following functions: Reset, Detect, and Disable (function 0); Static Device Initialization (function 1); Boot Output Device Initialization (function 2). Function 0 disables all device nodes, PCI devices, and PnP ISA cards. It also assigns PCI bus numbers. Function 1 initializes all static devices that include manual configured onboard peripherals, memory and I/O decode windows in PCI-PCI bridges, and noncompliant PCI devices. Static resources are also reserved. Function 2 searches for and initializes any PnP, PCI, or AGP video devices.
38	Initialize different buses and perform the following functions: Boot Input Device Initialization (function 3); IPL Device Initialization (function 4); General Device Initialization (function 5). Function 3 searches for and configures PCI input devices and detects if system has standard keyboard controller. Function 4 searches for and configures all PnP and PCI boot devices. Function 5 configures all onboard peripherals that are set to an automatic configuration and configures all remaining PnP and PCI devices.

POST Error Indicators

When a system error is detected during POST (Power On Self Text), the Setup utility will switch to diagnostic mode and will either:

- Displays a POST error message, or
- Emits a series of beep codes

POST Error Messages

POST error messages tell users what failure the system has detected. Some error messages could be related to a hardware device. Others may indicate a problem with a device configuration. In some cases an error message may include recommendations for troubleshooting or require that you press the **Enter** key to display recommendations. Follow the instructions on the screen. It is recommended that you correct the error before proceeding, even if the computer appears to boot successfully.

IMPORTANT If your system fails after you make changes in the Setup menus, reboot the computer, enter Setup again and load Setup defaults to correct the error.

Memory

Message	Description
Gate20 Error	The BIOS is unable to properly control the mainboard's Gate A20 function, which controls access of memory over 1 MB. This may indicate a problem with the mainboard.
Multi-Bit ECC Error	This message will only occur on systems using ECC enabled memory modules. ECC memory has the ability to correct single-bit errors that may occur from faulty memory modules. A multiple bit corruption of memory has occurred, and the ECC memory algorithm cannot correct it. This may indicate a defective memory module.
Parity Error	Fatal Memory Parity Error. System halts after displaying this message.
RAM R/W test failed	This message is displayed by the AMIBIOS8 when the RAM read/write test fails.
CMOS Memory Size Wrong	The base memory (memory below 1MB) size that is reported in the CMOS (offset 15h) mismatches with the actual size detected. This condition may occur when the hole is set at 512K base memory or when CMOS is corrupted.

Boot

Message	Description
Boot Failure...	This is a generic message indicating the BIOS could not boot from a particular device. This message is usually followed by other information concerning the device.
Invalid Boot Diskette	A diskette was found in the drive, but it is not configured as a bootable diskette.
Drive Not Ready	The BIOS was unable to access the drive because it indicated it was not ready for data transfer. This is often reported by drives when no media is present.
A: Drive Error	The BIOS attempted to configure the A: drive during POST, but was unable to properly configure the device. This may be due to a bad cable or faulty diskette drive.
B: Drive Error	The BIOS attempted to configure the B: drive during POST, but was unable to properly configure the device. This may be due to a bad cable or faulty diskette drive.
Insert BOOT diskette in A:	The BIOS attempted to boot from the A: drive, but could not find a proper boot diskette. Reboot and Select proper Boot device or Insert Boot Media in selected Boot device BIOS could not find a bootable device in the system and/or removable media drive does not contain media.
Reboot and select proper boot device or Insert boot media in selected boot device	BIOS could not find a bootable device in the system and/or removable media drive does not contain media.
NO ROM BASIC	This message occurs on some systems when no bootable device can be detected.

Storage Device

Message	Description
Primary Master Hard Disk Error	The IDE/ATAPI device configured as Primary Master could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Primary Slave Hard Disk Error	The IDE/ATAPI device configured as Primary Slave could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Secondary Master Hard Disk Error	The IDE/ATAPI device configured as Secondary Master could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Secondary Slave Hard Disk Error	The IDE/ATAPI device configured as Secondary Slave could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
3rd Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 3rd IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
3rd Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 3rd IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
4th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 4th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
4th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 4th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
5th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 5th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
5th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 5th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
6th Master Hard Disk Error	The IDE/ATAPI device configured as Master in the 6th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
6th Slave Hard Disk Error	The IDE/ATAPI device configured as Slave in the 6th IDE controller could not be properly initialized by the BIOS. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Primary Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Primary Master failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Primary Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Primary Slave failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Secondary Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Secondary Master failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
Secondary Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Secondary Slave failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
3rd Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 3rd IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.

Message	Description
3rd Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 3rd IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
4th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 4th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
4th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 4th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
5th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 5th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
5th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 5th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
6th Master Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Master in the 6th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
6th Slave Drive - ATAPI Incompatible	The IDE/ATAPI device configured as Slave in the 6th IDE controller failed an ATAPI compatibility test. This message is typically displayed when the BIOS is trying to detect and configure IDE/ATAPI devices in POST.
S.M.A.R.T. Capable but Command Failed	The BIOS tried to send a S.M.A.R.T. message to a hard disk, but the command transaction failed. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.
S.M.A.R.T. Command Failed	The BIOS tried to send a S.M.A.R.T. message to a hard disk, but the command transaction failed. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.
S.M.A.R.T. Status BAD, Backup and Replace	A S.M.A.R.T. capable hard disk sends this message when it detects an imminent failure.This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.
S.M.A.R.T. Capable and Status BAD	A S.M.A.R.T. capable hard disk sends this message when it detects an imminent failure. This message can be reported by an ATAPI device using the S.M.A.R.T. error reporting standard. S.M.A.R.T. failure messages may indicate the need to replace the hard disk.

Virus-related

Message	Description
BootSector Write!!	The BIOS has detected software attempting to write to a drive's boot sector. This is flagged as possible virus activity. This message will only be displayed if Virus Detection is enabled in AMIBIOS setup.
VIRUS: Continue (Y/N)?	If the BIOS detects possible virus activity, it will prompt the user. This message will only be displayed if Virus Detection is enabled in AMIBIOS setup.

System Configuration

Message	Description
DMA-1 Error	Error initializing primary DMA controller. This is a fatal error, often indication a problem with system hardware.
DMA-2 Error	Error initializing secondary DMA controller. This is a fatal error, often indication a problem with system hardware.
DMA Controller Error	POST error while trying to initialize the DMA controller. This is a fatal error, often indication a problem with system hardware.
Checking NVRAM... Update Failed	BIOS could not write to the NVRAM block. This message appears when the FLASH part is write-protected or if there is no FLASH part (System uses a PROM or EPROM).
Microcode Error	BIOS could not find or load the CPU Microcode Update to the CPU. This message only applies to INTEL CPUs. The message is most likely to appear when a brand new CPU is installed in a mainboard with an outdated BIOS. In this case, the BIOS must be updated to include the Microcode Update for the new CPU.
NVRAM Checksum Bad, NVRAM Cleared	There was an error in while validating the NVRAM data. This causes POST to clear the NVRAM data.
Resource Conflict	More than one system device is trying to use the same non-shareable resources (Memory or I/O).
NVRAM Ignored	The NVRAM data used to store Plug'n'Play (PnP) data was not used for system configuration in POST.
NVRAM Bad	The NVRAM data used to store Plug'n'Play (PnP) data was not used for system configuration in POST due to a data error.
Static Resource Conflict	Two or more Static Devices are trying to use the same resource space (usually Memory or I/O).
PCI I/O conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.
PCI ROM conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.
PCI IRQ conflict	A PCI adapter generated an I/O resource conflict when configured by BIOS POST.
PCI IRQ routing table error	BIOS POST (DIM code) found a PCI device in the system but was unable to figure out how to route an IRQ to the device. Usually this error is causing by an incomplete description of the PCI Interrupt Routing of the system.
Timer Error	Indicates an error while programming the count register of channel 2 of the 8254 timer. This may indicate a problem with system hardware.
Refresh timer test failed	BIOS POST found that the refresh timer hardware failed to pass the Refresh Retrace Test.
Interrupt Controller-1 error	BIOS POST could not initialize the Master Interrupt Controller. This may indicate a problem with system hardware.
Interrupt Controller-2 error	BIOS POST could not initialize the Slave Interrupt Controller. This may indicate a problem with system hardware.

CMOS

Message Displayed	Description
CMOS Date/Time Not Set	The CMOS date and/or time are invalid. This error can be resolved by readjusting the system time in AMIBIOS Setup.
CMOS Battery Low	CMOS battery is low. This message usually indicates that the CMOS battery needs to be replaced. It could also appear when the user intentionally discharges the CMOS battery.
CMOS Settings Wrong	CMOS settings are invalid. This error can be resolved by using AMIBIOS Setup.
CMOS Checksum Bad	CMOS contents failed the Checksum check. Indicates that the CMOS data has been changed by a program other than the BIOS or that the CMOS is not retaining its data due to malfunction. This error can typically be resolved by using AMIBIOS Setup.

Miscellaneous

Message Displayed	Description
KBC BAT Test failed	Keyboard controller BAT test failed. This may indicate a problem with keyboard controller initialization.
Keyboard Error	Keyboard is not present or the hardware is not responding when the keyboard controller is initialized.
PS/2 Keyboard not found	PS/2 keyboard support is enabled in the BIOS setup but the device is not detected.
PS/2 Mouse not found	PS/2 mouse support is enabled in the BIOS setup but the device is not detected.
Keyboard/Interface Error	Keyboard controller failure. This may indicate a problem with system hardware.
Unlock Keyboard	PS/2 keyboard is locked. User needs to unlock the keyboard to continue the BIOS POST.
System Halted	The system has been halted. A reset or power cycle is required to reboot the machine. This message appears after a fatal error has been detected.
<INS> Pressed	Indicates that <INS> key is pressed during the BIOS POST. The POST will load and use default CMOS settings.
Password check failed	The password entered does not match the password set in the setup. This condition may occur for both Supervisor and User password verification.
Unknown BIOS error. Error code = 004Ah	This message is displayed when ADM module is not present in the AMIBIOS8 ROM.
Unknown BIOS error. Error code = 004Bh	This message is displayed when language module is not present in the AMIBIOS8 ROM.
Floppy Controller Failure	Error in initializing legacy Floppy Controller.

Index of Symptom-to-FRU Error Messages

To use the information in this section to diagnose a problem:

1. Find the error symptom in the left column.
2. If directed to a check procedure, replace the FRU indicated in the check procedure.

   If no check procedure is indicated, the first Action/FRU item listed in the right column is the most likely cause.

NOTE If you cannot find a symptom or an error in this list and the problem remains, see “Undetermined Problems” on page 65.

Processor/Processor Fan-related Symptoms

Symptom/Error	Action/FRU
Processor fan does not run but power supply fan runs.	• Ensure the system is not in power saving mode. • With the system powered on, measure the voltage of the processor fan connector. Its reading should be +12Vdc. If the reading shows normal, but the fan still does not work, then replace the heat sink fan. • Mainboard
Processor test failed.	• Processor • Mainboard

NOTE Normally, the processor fan should be operative, and the processor clock setting should be exactly set to match its speed requirement before diagnosing any processor problems.

Mainboard and Memory-related Symptoms

Symptom/Error	Action/FRU
Memory test failed.	• Memory module • Mainboard
Incorrect memory size shown or repeated during POST.	• Insert the memory modules in the DIMM sockets properly, then reboot the system. • Memory module • Mainboard
System works but fails to enter power saving mode when the Power Management Mode is set to Enabled.	• Enter CMOS Setup and load the default settings. In Windows systems, check settings in Power Management Property of the Control Panel. • Reload software from Recovery CD.
Blinking cursor only; system does not work.	• IDE drive connection/cables • IDE disk drives • See “Undetermined Problems”. • Mainboard

NOTE Ensure the memory modules are installed properly and the contact leads are clean before diagnosing any system problems.

Hard Disk Drive-related Symptoms

Symptom/Error	Action/FRU
Hard disk drive test failed.	• Enter CMOS Setup and load the default settings. • Hard disk drive cable • Hard disk drive • Mainboard
Hard disk drive cannot format completely.	• Enter CMOS Setup and load the default settings. • Hard disk drive cable • Hard disk drive • Mainboard
Hard disk drive has write error.	• Enter CMOS Setup and load the default settings. • Hard disk drive
Hard disk drive LED fails to light, but system operates normally.	• With the system power on, measure the voltage of the HDD LED connector. • HDD LED cable

NOTE Make sure the hard disk drive is configured correctly in CMOS Setup and that cable/jumper are set correctly before diagnosing any hard disk drive problems. (If only one drive is installed, please make sure the drive is connected to master connector or the drive is set to master.)

Optical Disc Drive-related Symptoms

Symptom/Error	Action/FRU
CD/DVD-ROM drive LED doesn't come on but works normally.	• Enter CMOS Setup and load the default settings. • DIMM • Mainboard
CD/DVD-ROM drive LED flashes for more than 30 seconds before LED shutting off. Software asks to reinstall disc. Software displays a reading CD/DVD error.	• CD/DVD-ROM may have dirt or foreign material on it. Check with a known good disc. • CD/DVD-ROM is not inserted properly. • CD/DVD-ROM is damaged.
CD/DVD-ROM drive cannot load or eject when the system is turned on and its eject button is pressed and held.	• Disconnect all cables from CD/DVD-ROM drive except power cable, then press the eject button to try to unload the disc. • CD/DVD-ROM drive power cable • CD/DVD-ROM drive
CD/DVD-ROM drive does not read and there are no messages are displayed.	• CD may have dirt or foreign material on it. Check with a known good disc. • Ensure the CD/DVD-ROM driver is installed properly. • CD/DVD-ROM drive.
CD/DVD-ROM drive can play audio CD but no sound output.	• Ensure the headphone jack of the CD/DVD-ROM has an output. • Turn up the sound volume. • Speaker power/connection/cable. • CD/DVD-ROM drive.

NOTE Make sure the optical disc drive is configured correctly in CMOS Setup, the cable/jumper are set correctly and the drive's optical lens is clean before diagnosing any optical drive problems.

Real-Time Clock-related Symptoms

Symptom/Error	Action/FRU
Real-time clock is inaccurate.	• Ensure the information in the Standard CMOS Feature of BIOS Setup is set correctly. • RTC battery • Mainboard

Audio-related Symptoms

Symptom/Error	Action/FRU
Audio software program invoked but no sound comes from speakers.	• Speaker power/connection/cable

Modem-related Symptoms

Symptom/Error	Action/FRU
Modem ring cannot wake up system from suspend mode.	• For an external modem, make sure Power on By Ring in BIOS Setup or Power Management is set to Enabled. For the PCI modem, make sure Wake up by PCI card is set to Enabled. • If a PCI modem card is used, reinsert the modem card to the PCI slot firmly or replace the modem card. • In Win 98, ensure the telephone application is configured correctly for your modem and set to receive messages and/or fax.
Data/fax modem software program invoked but cannot receive/send data/fax	• Ensure the modem card is installed properly.
Fax/voice modem software program invoked but has no sound output. (Data files are received normally; voice from modem cannot be produced, but system sound feature works normally.)	• Ensure the modem voice-in cable from modem adapter card is connected to the mainboard

Video and Monitor-related Symptoms

Symptom/Error	Action/FRU
Video memory test failed.Video adapter failed.	• Remove all non-factory-installed cards. • Load default settings (if screen is readable). • Mainboard
Display problem • Incorrect colors • No high intensity • Missing, broken, or incorrect characters • Blank monitor (dark) • Blank monitor (bright) • Distorted image • Unreadable monitor	• Monitor signal connection/cable • Monitor • Video adapter card • Mainboard
Display changing colors.	• Monitor signal connection/cable • Video adapter card • Mainboard

Printer-related Symptoms

Symptom/Error	Action/FRU
Printing failed.	• Ensure the printer driver is properly installed. Refer to the printer service manual. • Printer • Printer cable • Mainboard.
Printer problems.	• Refer to the service manual for the printer.

Keyboard-related Symptoms

Symptom/Error	Action/FRU
Some or all keys on keyboard do not work.	• Keyboard

Power Supply-related Symptoms

Symptom/Error	Action/FRU
Pressing the power button does not turn off the system. (Only unplugging the power cord from electrical outlet can turn off the system.)	• Ensure the Soft-off by PWR-BTTN in CMOS Setup (under Power Management) is not set to Instant-off. • Power switch cable assembly
Pressing the power button does not turn on the system	• Ensure the power override switch (located at the back of the computer, just above the connector for the power cable) is not set to OFF. • Power switch cable assembly.
Executing software shutdown from Windows98 Start menu does not turn off the system. (Only pressing power button can turn off the system).	• Enter CMOS Setup and load the default settings. • Reload software from Recovery CD.
No system power, or power supply fan is not running.	• Power supply • Mainboard

Beep Codes

When no error message is displayed but the computer stops during POST, listen for beep codes.

Beep	Status	Possible Causes
One short beep.	System ready	System is OK.
Continuous one long beep	Memory not installed or memory error	• Something is wrong with the memory installed • There is problem accessing the memory (i.e., mainboard problem)
One long beep, then two short beeps and repeat	VGA not installed or VGA error	• The mainboard can not access the video card for some reasons. Either the video card is not working, its memory is not accessible, or its BIOS may be corrupt. • Something is wrong with the mainboard.
One long beep, then one short beep	BIOS failure	BIOS damaged. Processor jump to boot block to execute the default procedure.
Two short beeps.	CMOS failure	CMOS checksum error

Undetermined Problems

NOTE
- Verify that all attached devices are supported by the computer.
- Verify that the power supply being used at the time of the failure is operating correctly. (See “Power System Check” on page 59)

Follow the procedures below to isolate the failing FRU. Do not isolate non-defective FRU.

1. Power off the computer.
2. Visually check them for damage. If any problems are found, replace the FRU.
3. Remove or disconnect all of the following devices:
   - Non-Acer devices
   - Printer, mouse, and other external devices
   - Hard disk drive
   - DIMM
   - CD/DVD-ROM drive
   - Expansion boards
4. Power on the computer.
5. Determine if the problem has been resolved.
6. If the problem does not recur, reconnect the removed devices one at a time until you find the failed FRU.

   If the problem persists, replace the mainboard, and then LCD assembly (one at a time). Do not replace a non-defective FRU.

BIOS Recovery

When you boot up the computer and you hear one long beep, followed by a shorter one, the system BIOS is damaged. This maybe cause by an interruption during a BIOS flash procedure (e.g. a power outage) or a corrupted BIOS code, which will cause the system to go into an unbootable state.You need to access and execute the boot block program to reboot the computer and recover the regular BIOS code.

Note the following when restoring the BIOS settings:

- Make sure the computer is connected to a UPS unit during the BIOS recovery process.
- The BIOS crisis recovery disk should be prepared in a computer running the Windows XP or Windows Vista OS.

Creating the BIOS Crisis Recovery Disk

1. Prepare a removable USB storage device with a capacity size greater than 10 MB.

   Note that all data on the USB storage device will be cleared during the creation of the crisis disk.
2. Set up a computer running the Windows XP or Windows Vista operating system and plug in the USB storage device into an available USB port.
3. Copy the target BIOS ROM file to the USB storage device and rename it as “amiboot.rom”.
4. Unplug the USB storage device.
5. Eject the removable USB storage device from the computer.

Performing a BIOS Recovery

1. Shut down the BIOS failed-computer.
2. Connect the USB storage device containing the “amiboot.rom” file to the failed computer.
3. Press the power button to turn on the computer.

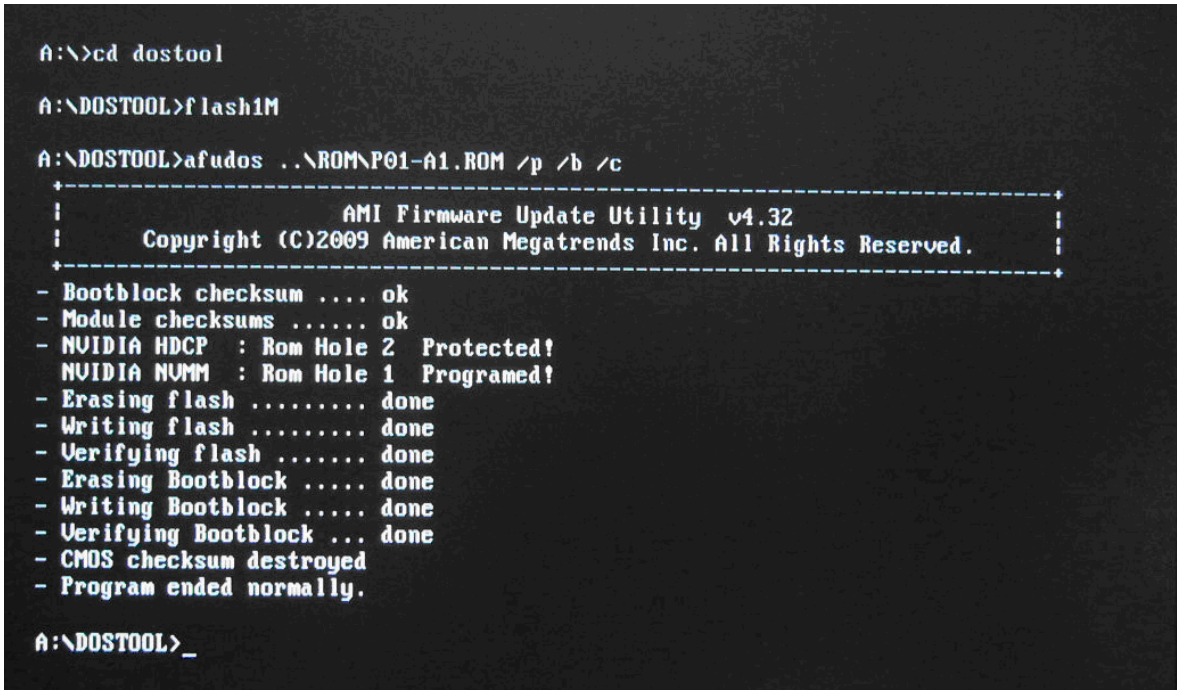
   The system will now execute the BIOS recovery process. When the process is complete, four short beeps will be emitted and the computer will automatically reboot.
4. Disconnect the USB storage device from the computer.
5. Press **Delete** to run the CMOS Setup Utility.
6. Press **F9** to load the system default settings.
7. Select **Ok**, then press **Enter**.
8. Press **F9** to save the default settings and close the Setup utility.
9. Select **Ok**, then press **Enter**.

BIOS Update

Updating the BIOS in DOS Mode

1. Press the power button to turn on the computer and boot to DOS mode.
2. Key in 'cd dostool'. (Go to BIOS path like "A:\DOSTOOL")
3. Key in 'flash1M.bat' or 'flash1M'.

4. Press **Enter** to flash the system BIOS.

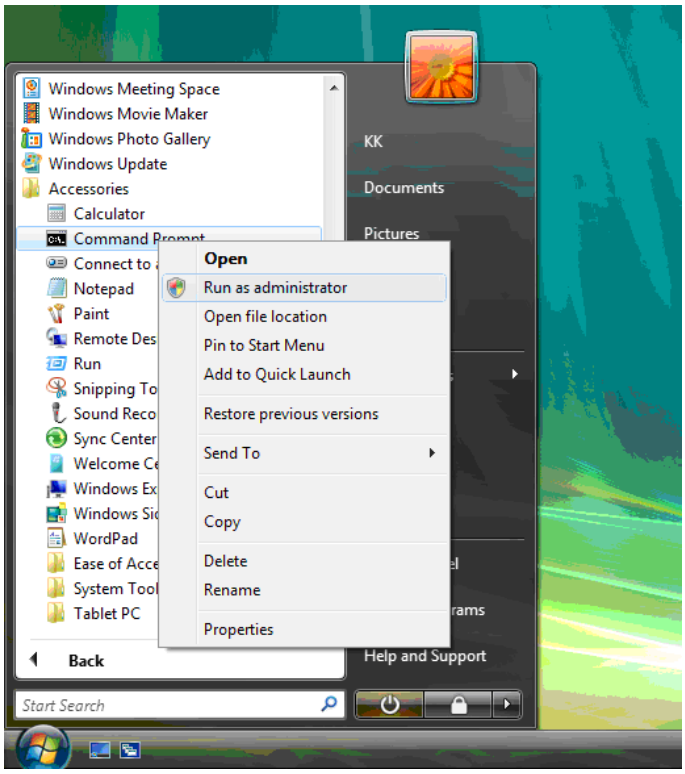


5. Reboot the computer.
6. Press **Delete** to run the CMOS Setup Utility.
7. Press **F9** to load the system default settings.
8. Select **Ok**, then press **Enter**.
9. Press **F9** to save the default settings and close the Setup utility.
10. Select **Ok**, then press **Enter**.

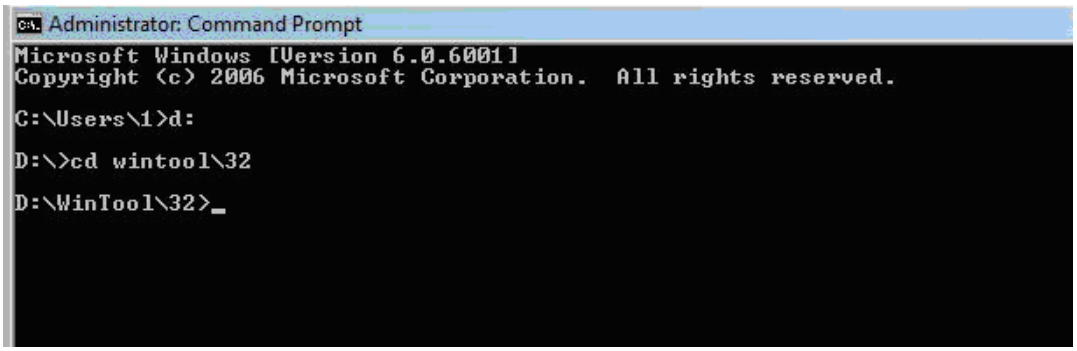
Updating the BIOS in Windows Mode

This BIOS updating procedure is for a computer running a 32- or 64-bit Windows OS.

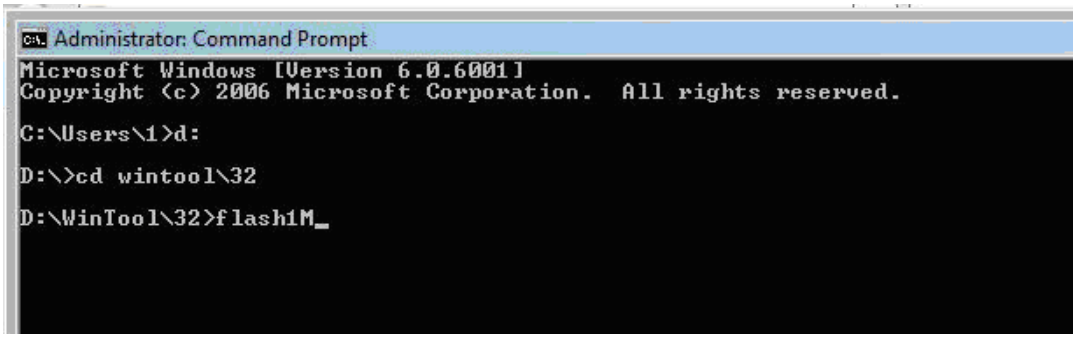
1. Press the power button to turn on the computer.
2. Click **Start** | **Command Prompt** | **Run as administrator**.



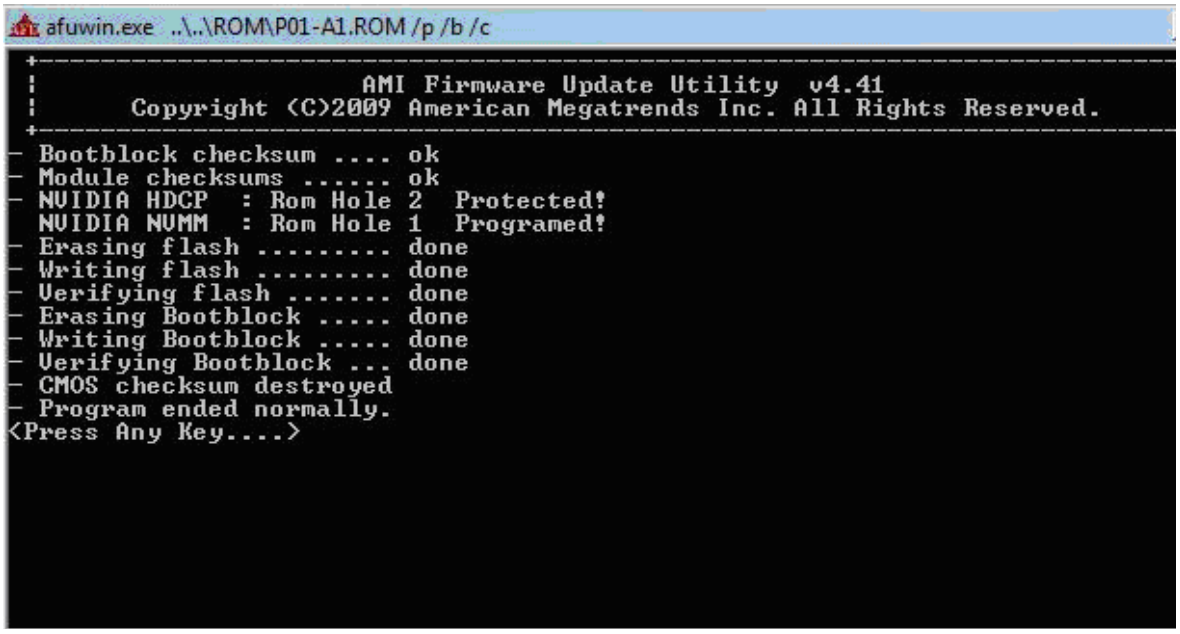
3. Perform the steps below if your computer is running 32-bit Windows.
   a. Key in 'cd wintool\32'. (Go to BIOS path like "D:\WinTool\32")



   b. Key in 'flash1M.bat' or 'flash1M'.

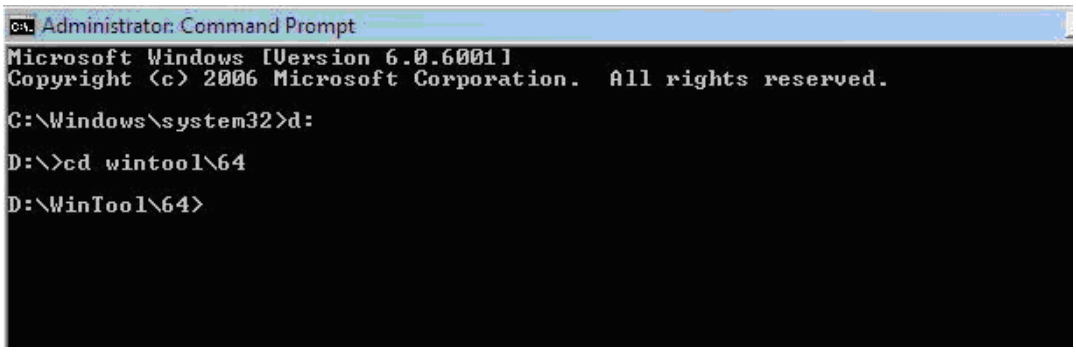


c. Press **Enter** to flash the system BIOS.

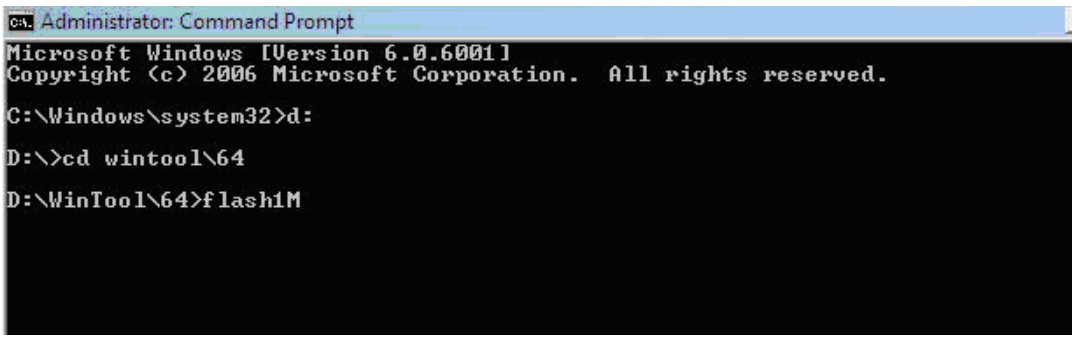


4. Perform the steps below if your computer is running 64-bit Windows.

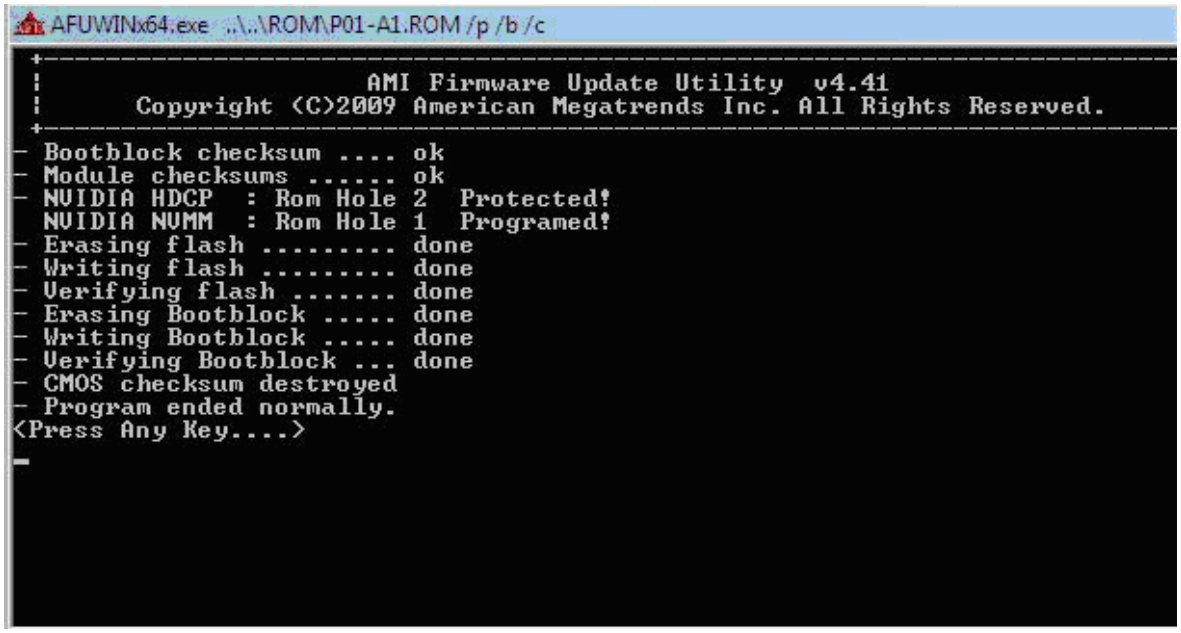
a. Key in 'cd wintool\64'. (Go to BIOS path like "D:\WinTool\64")



b. Key in 'flash1M.bat' or 'flash1M'.



c. Press **Enter** to flash the system BIOS.



5. Reboot the computer.
6. Press **Delete** to run the CMOS Setup Utility.
7. Press **F9** to load the system default settings.
8. Select **Ok**, then press **Enter**.
9. Press **F9** to save the default settings and close the Setup utility.
10. Select **Ok**, then press **Enter**.

Clearing CMOS

You may need to clear the Setup configuration values (CMOS) if the configuration has been corrupted, or if incorrect settings made in the Setup Utility caused error messages to be unreadable. This procedure will clear the BIOS supervisor password as well.

Use the JBIOS1 jumper to clear the CMOS data.

- 1-2 position: Normal operation (default)
- 2-3 position: Clear CMOS data

To clear the CMOS data:

1. Turn off the power to the computer and all peripherals.
2. Unplug the power cord from the computer.
3. Unplug the network cable and all connected peripheral devices from the computer.
4. Place the computer on a flat, steady surface.
5. Remove the side panel.
6. If necessary, remove any expansion cards, assemblies or cables that prevent access to the CMOS clear jumper.
7. Locate the JBIOS1 jumper on the mainboard.
8. Remove the jumper block and set it over the 2-3 pins for 20 to 30 seconds.
9. Return the jumper block to its default 1-2 position.
10. Reinstall any expansion card, peripheral, and system cables that have previously been removed.
11. Reinstall the side panel.
12. Connect the AC power cord to the system.
13. Press the power button ⏻ to turn on the computer.
14. During POST, press **Delete** to access the Setup Utility.
15. Press **F9** to load the system default values.
16. Press **F10** to save the changes you made and close the Setup Utility.

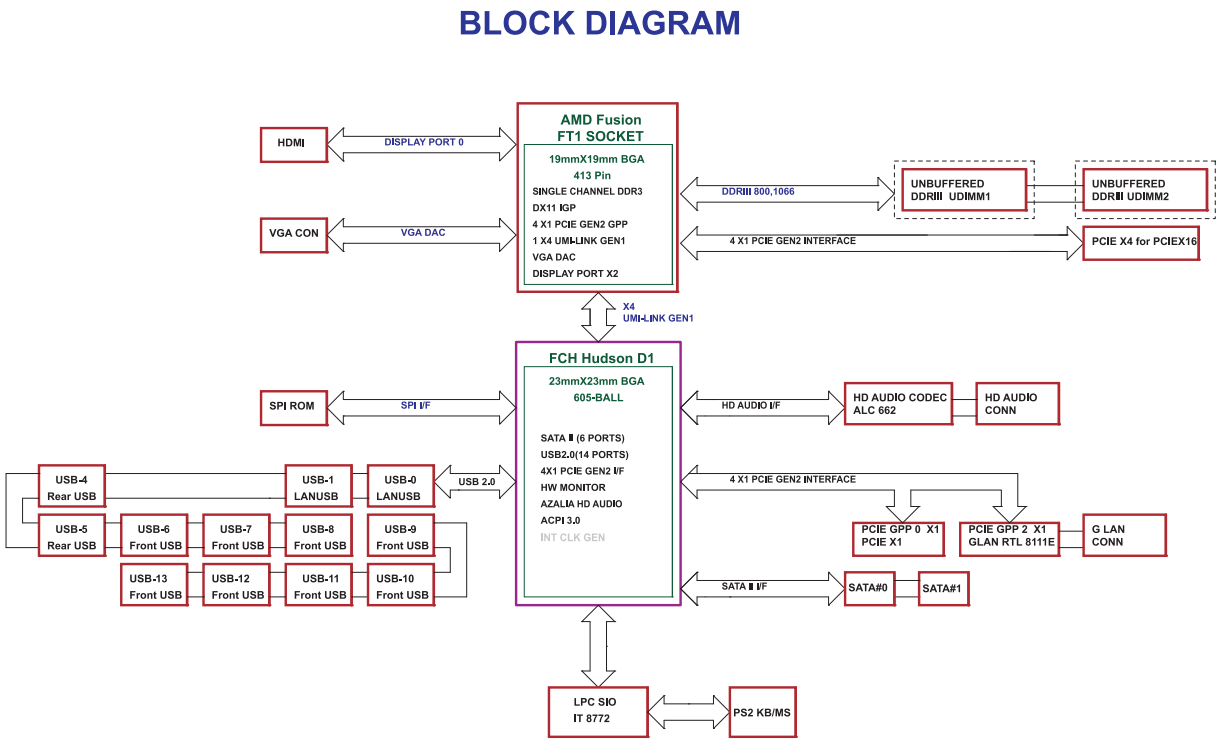
Chapter 5

System Architecture

This chapter shows the block diagram and board layout of the Aspire AX1430 computer.

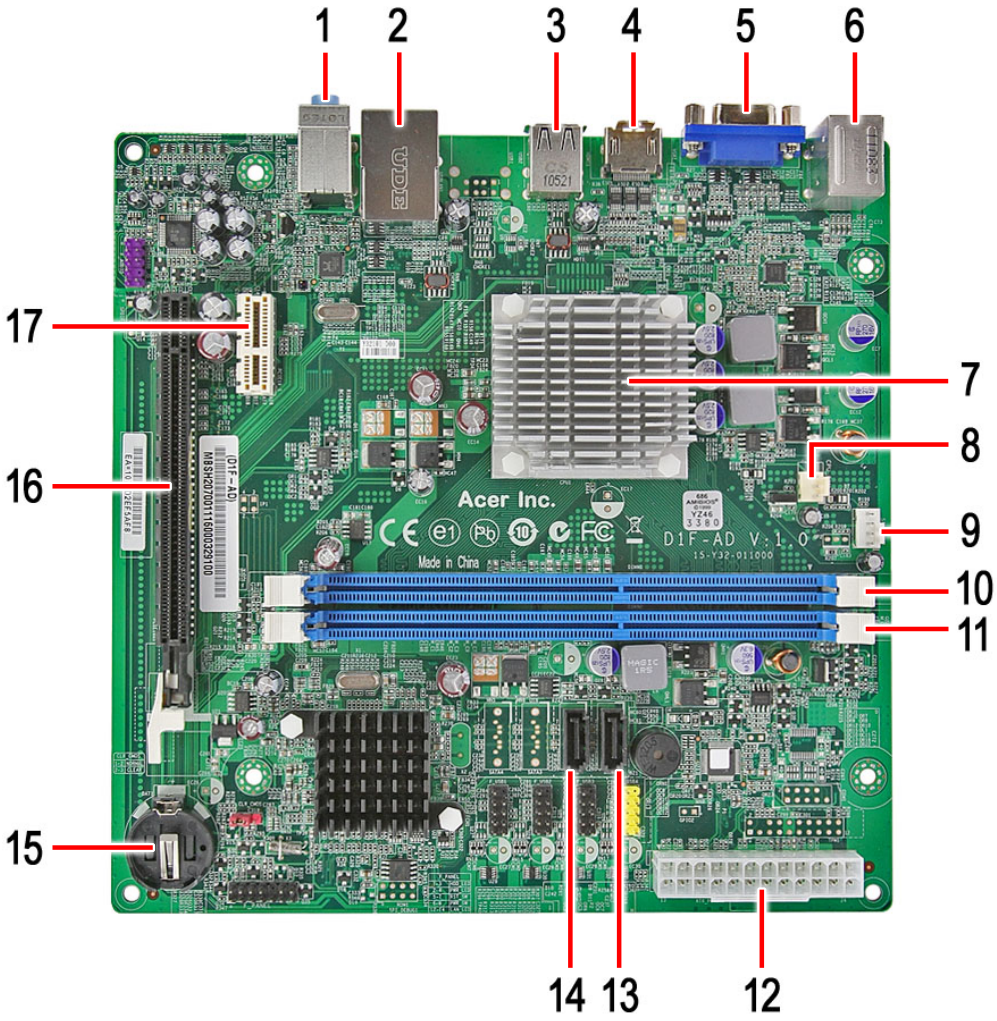
Block Diagram

The core subsystems of the Aspire AX1430 computer are depicted in the following block diagram.



Mainboard Layout

This section shows the major mainboard components.



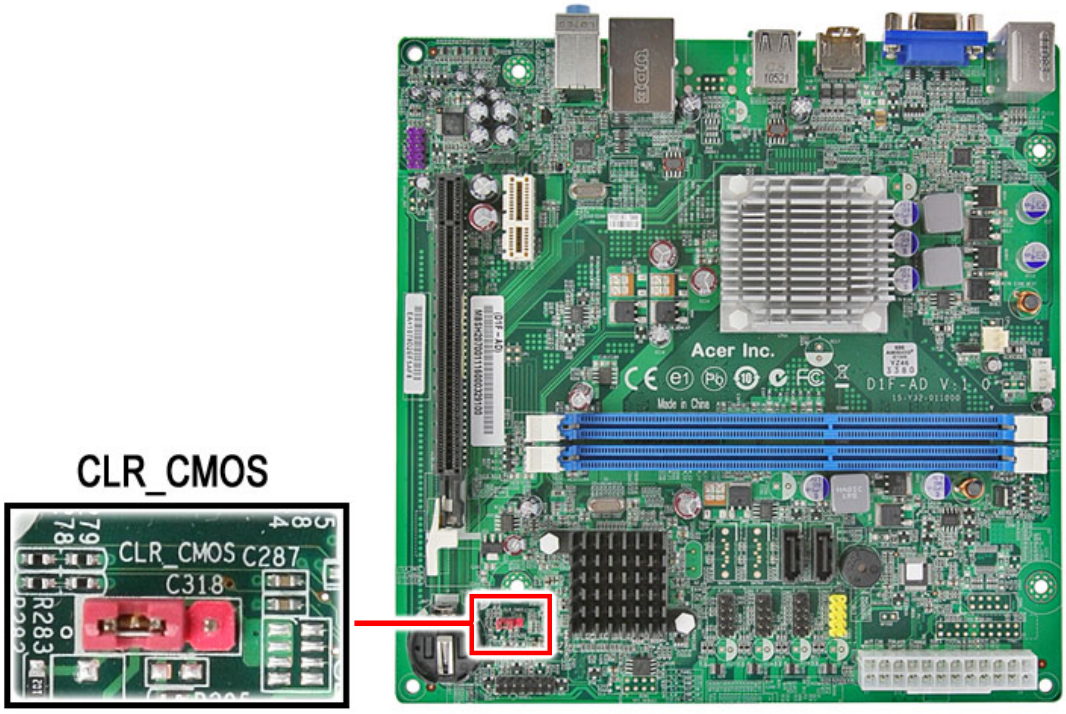
No.	Label	Description	No.	Label	Description
1	AUDF1	Front panel audio jack header	10	DIMM1	DDR3 240-pin slot 1
2	USBLAN1	RJ45+USB connectors	11	DIMM	DDR3 240-pin slot 2
3	USB2	USB connectors	12	ATX_POWER1	Standard 24-pin power connector
4	HDMI1	HDMI connector	13	SATA1	Serial ATA connector 1
5	VGA1	VGA connector	14	SATA2	Serial ATA connector 2
6	PSKM1	Keyboard and mouse connectors	15	BAT1	Battery holder
7	CPU1	Processor socket	16	PCIEX16	PCIEX16 Slot
8	CPU_FAN1	CPU cooling fan connector	17	PCIEX1	PCIEX1 36-pin slot
9	SYSFAN9	System fan connector			

Jumper Setting

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

Jumpers with more than one pin are numbered. When setting a jumper, ensure that the jumper caps are placed on the correct pins.

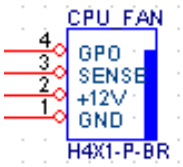
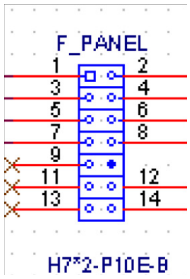
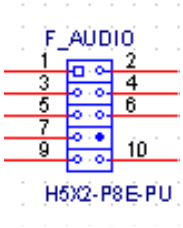
The following illustration shows the location of CLR_CMOS.



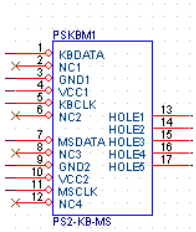
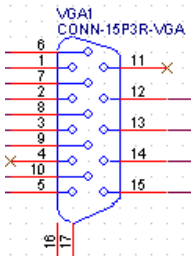
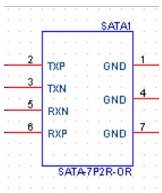
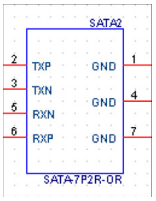
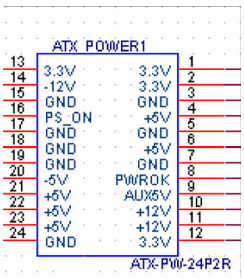
The following table shows the settings of the 3-pin CLR_CMOS jumper. Place the jumper cap on pins 1 and 2 to close or short the jumper. Place the jumper cap on pins 2 and 3 to open or clear the jumper.

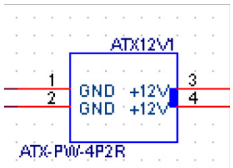
Jumper	Type	Description	Setting (default)	
CLR_CMOS	3-pin	Clear CMOS	1-2: Close (default) 2-3: Open Before clearing the CMOS, make sure to turn off the system.	

Internal header pin definition

Header Name	Function	Definition
	CPU FAN HEADER	1: GND 2: +12V 3: SENSE 4: PWM CONTROL
	FRONT PANEL HEADER	1: SATALED+ 2: ACPI_LED 3: SATALED- 4: PWR_LED 5: GND 6: PWR_SW 7: RESET 8: GND 9: NC 10: Key 11: NC 12: VCC 13: NC 14: -ACTIVE_C
	FRONT USB HEADER	1: USBVCC_1 2: USBVCC_1 3: USB0_XN 4: USB1_XN 5: USB0_XP 6: USB1_XP 7:GND 8: GND 9: KEY 10: GND
	FRONT USB HEADER	1: USBVCC_2 2: USBVCC_2 3: USB2_XN 4: USB4_XN 5: USB2_XP 6: USB4_XP 7:GND 8: GND 9: KEY 10: GND
	FRONT AUDIO HEADER	1: PORT-F_L 2: AUGND 3: PORT-F_R 4: FRONT_AUD_DET 5: PORT-E_R 6: MIC2_JD 7: AUGND 8: KEY 9: PORT-E_L 10: LINE2_JD

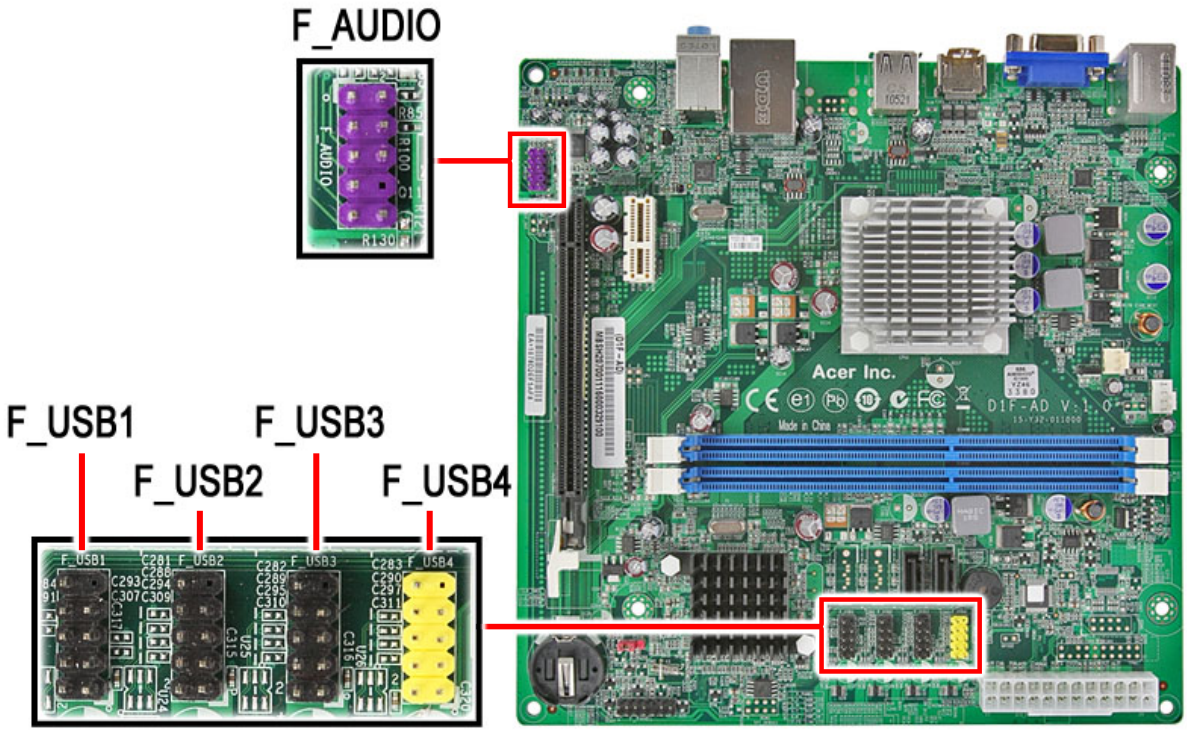
Connector pin definition

Header Name	Function	Definition
	PSKBMS CONN	1: KBDATA 2: NC 3: GND 4: KBVCCSB 5: KBCLK 6: NC 7: MSDATA 8: NC 9: GND 10: KBVCCSB 11: MSCLK 12: NC 13: GND 14: GND 15: GND 16: GND 17: GND
	VGA CONN	1: RED 2: GREEN 3: BLUE 4,11: NC 9: HDMIVCC 12: VDAC_SDAT 13: HSYNC 14: VSYNC 15: VDAC_SCLK 5,6,7,8,10,16,17: GND
	SATA CONN	1: GND 2: SATA0_TX_P 3: SATA0_TX_N 4: GND 5: SATA0_RX_N 6: SATA0_RX_P 7: GND
	SATA CONN	1: GND 2: SATA1_TX_P 3: SATA1_TX_N 4: GND 5: SATA1_RX_N 6: SATA1_RX_P 7: GND
	ATX_POWER CONN	1:VCC3 13:VCC3 2:VCC3 14:-12V 3: GND 15:GND 4:VCC 16:ATX_PSON_L 5:GND 17:GND 6:VCC 18:GND 7:GND 19:GND 8:ATX_PWRGD 20:NC 9:5VSB 21VCC 10:+12V 22:VCC 11:+12V 23:VCC 12:VCC3 24:GND

Header Name	Function	Definition
	ATX12V CONN	1: GND 2: GND 3: +12V_4P 4: +12V_4P

Connecting Optional Devices

Refer to the following for information on connecting the mainboard's optional devices:



SATA1~2: Serial ATA connectors

These connectors are used to support the new Serial ATA devices for the highest datatransfer rates (3.0 Gb/s), simpler disk drive cabling and easier PC assembly. It elimi-nates limitations of the current Parallel ATA interface. But maintains register com-patibility and software compatibility with Parallel ATA.

Pin	Signal Name	Pin	Signal Name
1	Ground	2	TX+
3	TX-	4	Ground
5	RX-	6	RX+
7	Ground		

F_AUDIO: Front Panel Audio header

This header allows the user to install auxiliary front-oriented microphone and line-out ports for easier access.

Pin	Signal Name	Pin	Signal Name
1	PORT 1L	2	AUD_GND
3	PORT 1R	4	PRESENCE#
5	PORT 2R	6	SENSE1_RETURN
7	SENSE_SEND	8	KEY
9	PORT 2L	10	SENSE2_RETURN

F_USBF1~4: Front Panel USB headers

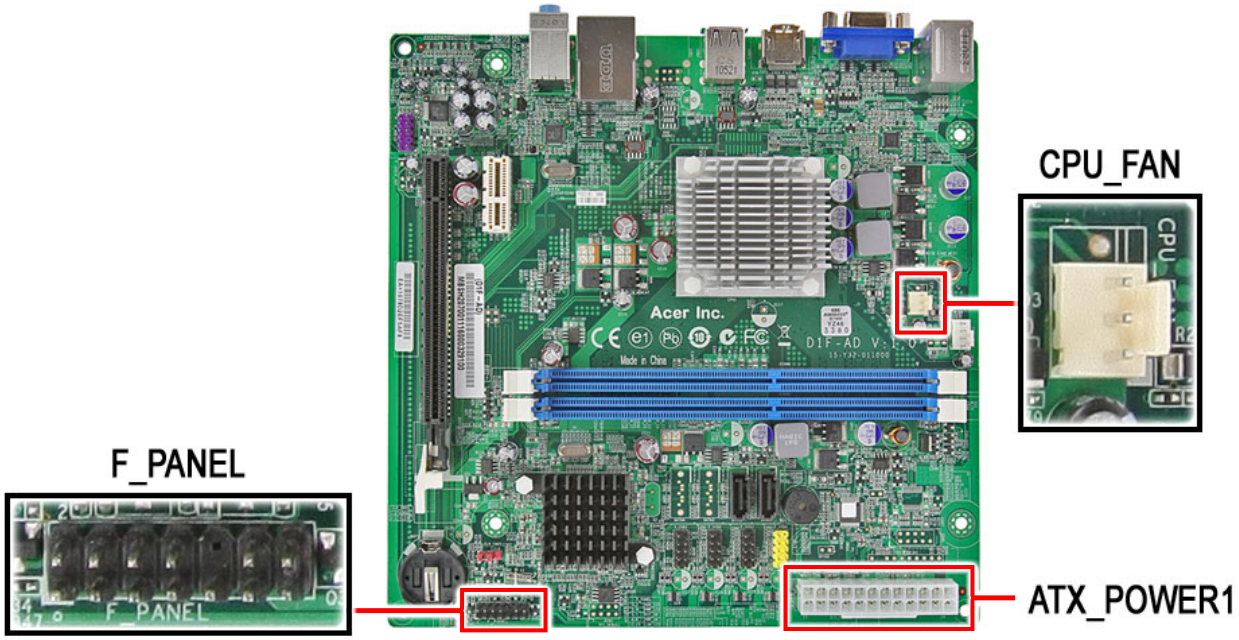
The mainboard has four USB ports installed on the rear edge I/O port array and two at the front panel. For the front panel USB ports, you have to use the auxiliary USB connector to connect the front-mounted ports to the mainboard.

Pin	Signal Name	Function
1	USBPWR	Front Panel USB Power
2	USBPWR	Front Panel USB Power
3	USB_FP_P0-	USB Port 0 Negative Signal
4	USB_FP_P1-	USB Port 1 Negative Signal
5	USB_FP_P0+	USB Port 0 Positive Signal
6	USB_FP_P1+	USB Port 1 Positive Signal
7	GND	Ground
8	GND	Ground
9	Key	No pin
10	USB_FP_OC0	Overcurrent signal

Connecting Case Components

After you have installed the mainboard into a case, you can begin connecting the mainboard components. Refer to the following:

1. Connect the CPU cooling fan cable to CPU_FAN.
2. Connect the standard power supply connector to ATX_POWER1.
3. Connect the case switches and indicator LEDs to the F_PANEL.



CPU_FAN: CPU Cooling Fan Power Connector

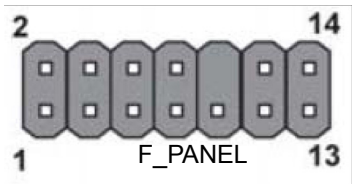
Pin	Signal Name	Function
1	GND	System ground
2	+12V	Power +12V
3	Sense	Sensor
4	PWM	PWM

ATX_POWER1: ATX 24-pin Power Connector

Pin	Signal Name	Pin	Signal Name
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	Ground	15	Ground
4	+5V	16	PS_ON
5	Ground	17	Ground
6	+5V	18	Ground
7	Ground	19	Ground
8	PWRGD	20	-5V
9	+5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	Ground

F_PANEL: Front Panel Header

The front panel header (F_PANEL) provides a standard set of switch and LED headers commonly found on ATX or micro-ATX cases. Refer to the table below for information:



Pin	Signal Name	Function	Pin	Signal Name	Function
1	VCC	Reset Switch (+)	2	GLED0	*MSG LED (+)
3	HDD_LEDN	Hard disk LED (-)	4	GLED1	*MSG LED (-)
5	GND	Reset Switch (-)	6	PWRSW	Power Switch (+)
7	HWRST_L	Reset Switch (+)	8	GND	Power Switch (-)
9	F_PANEL_DET	Reserved	10	KEY	No pin
11	NC	Reserved	12	VCC	Reset Switch (+)
13	NC	Reserved	14	F_LAN_LED	Reset Switch (+)

Chapter 6

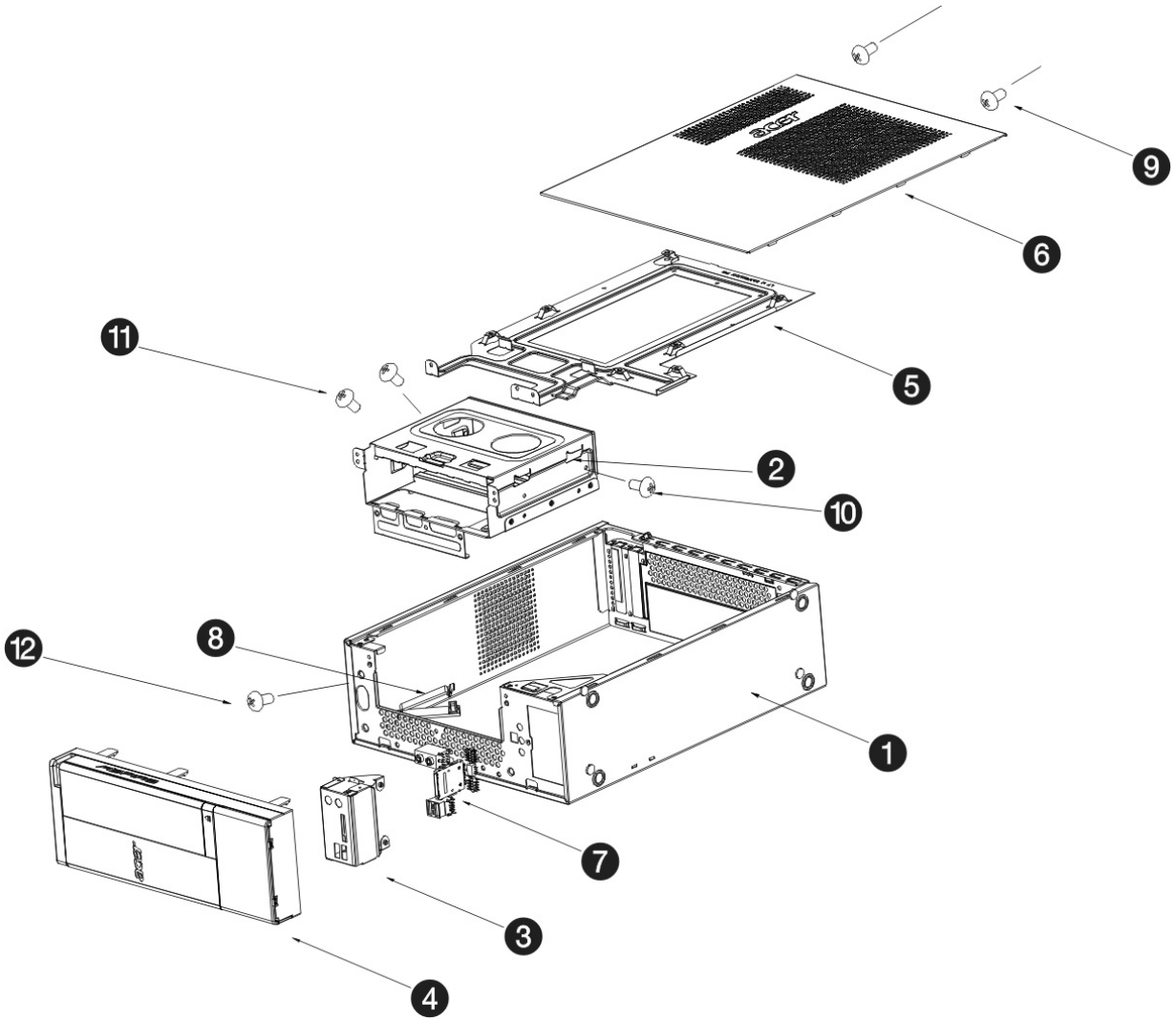
Field Replaceable Unit (FRU) List

This chapter gives you the FRU (Field Replaceable Unit) listing of the Aspire AX1430 computer global configurations. Refer to this list when ordering for repair parts or for RMA (Return Merchandise Authorization).

IMPORTANT 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.

NOTE Follow the local government regulations, or the rules set by your regional office on how to return or dispose of defective parts.

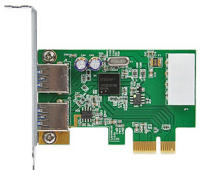
Exploded Diagram

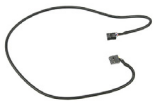


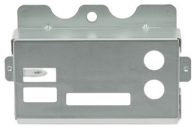
No.	Description	Quantity
1	Lowercase assembly	1
2	HDD-ODD bracket	1
3	Front I/O and card reader board bracket	1
4	Front cover assembly	1
5	Lowercase support	1
6	Side cover	1
7	Front I/O and card reader board	1
8	Plastic cable clip	1
9	Screw I #6-32 L5	2-4
10	Screw Pan, M3 L5	2
11	Screw Flat #6-32*3/16 NI	4
12	Screw Pan #6-32 L6 NI	13

Aspire AX1430 FRU List

ACER_AX1430_W_AFENDER

Category	Part Name	Description	Acer Part No.
ACCESSORY	RECEIVER PHILIPS VISTA OVU71	PHILIPS VISTA MCE RECEIVER	RV.11000.007
	REMOTE CONTROL PHILIPS RC2604307/01BG PAIR WITH RV.11000.007 EMEA FOR WINDOWS7	REMOTE CTRL PHILIPS RC2604307/	RT.11300.021
BOARDS 	FRONT IO BOARD USB 2.0 2 USB PORT 2 AUDIO PORT W/O CARD READER	F-IO BD USB 2.0 2 USB PORT 2 AUDIO PORT	55.NCM01.001
	FRONT IO & CARD READER BOARD USB 2.0 2 USB PORT 2 AUDIO PORT	CARD READER 6 IN 1 USB 2.0 2 USB PORT 2	55.NCM01.002
	TV TUNER CARD AVERMEDIA H753-A PCIE HYBRID ATSC S/W ENCODER LP BRACKET	AVERMEDIA H753-A TV TUNER CARD PCIE HYBR	TU.10500.073
	TV TUNER CARD AVERMEDIA H753-D PCIE HYBRID DVB-T S/W ENCODER LP BRACKET	AVERMEDIA H753-D TV TUNER CARD PCIE HYBR	TU.10500.075
	TV TUNER CARD CHINA AVERMEDIA H753-C PCIE HYBRID DMB-TH S/W ENCODER LP	AVERMEDIA H753-C TV TUNER CARD PCIE HYBR	TU.10500.079
	USB 3.0 CARD PCI-E (LOW PROFILE) KIT 8.5 WITH Y CABLE	USB 3.1 CARD PCI-E (LOW PROFILE) KIT 8.5	PA.14000.043
	WIRELESS LAN BOARD 802.11BGN PRONETS WU71RL USB	WLAN 802.11 BGN WU71RL USB	NI.10200.023
	WIRELESS LAN BOARD 802.11BGN 1X1 RALINK RT3090 LOW-PROFILE	WLAN 802.11BGN 1X1 RALINK RT3090 (LOW-PR	NI.10200.038
	VGA CARD 288-7N162-A01AC GT530 2GB 128BIT DDR3 DVI + HDMI SAMSUNG LP	PCP NV GT530 2GB DDR3 SDI DVI/HDMI/VGA	VG.PCPT5.302
	VGA CARD 288-7N162-B01AC GT530 2GB 128BIT DDR3 DVI + HDMI HYNIX LP	PCP NV GT530 2GB DDR3 HYNIX DVI/HDMI/ VGA	VG.PCPT5.304
	VGA CARD 288-2E180-A00AC HD6450 1GB SDDR3 64BITS DVI-I + HDMI SAMSUNG (LP)	VGA CARD HD6450 1GB 64BITS SDDR3 SDI DVI	VG.APC64.523
	VGA CARD 288-2E180-C00AC HD6450 1GB SDDR3 64BITS DVI-I + HDMI HYNIX (LP)	VGA CARD HD6450 1GB 64 BITS SDDR3 HYNIX	VG.APC64.525
	VGA CARD 89D685-321108 HD6450 1GB SDDR3 64BITS DVI-I + HDMI SAMSUNG (LP)	RADEON 6450 1GB SDDR3 SDI DVI-I/HDMI LP	VG.ECS64.5A2
	VGA CARD 288-1E180-C00AC HD6450 512MB SDDR3 SDI DVI-I/HDMI/LP	VGA CARD HD6450 512MB SDDR3 SDI DVI-I/ HD	VG.APC64.504

Category	Part Name	Description	Acer Part No.
	VGA CARD 288-1E180-D00AC HD6450 512MB SDDR3 64BITS DVI-I + HDMI HYNIX DFR (LP)	VGA CARD HD6450 512MB SDDR3 HYNIX DVI-I	VG.APC64.506
	VGA CARD 288-5E142-C01AC HD6570 1GB 128BITS SDDR3 HYNIX DVI-I/ HDMI SAMSUNG LP BRACKET	VGA CARD HD6570 1GB SDDR3 HYNIX DVI-I/HD	VG.APC65.704
	VGA CARD 288-5N158-C20AC 405 (GT218) 1GB DDR3 64BITS DVI-I + DP SAMSUNG C-DIE LP	PCP NV GT405=NV315 1GB SDDR3 SDI DVI/DP	VG.PCPT4.008
	CGA CARD 288-5N158-D20AC 405 (GT218) 1GB DDR3 64BITS DVI-I + DP HYNIX BFR-DIE LP	PCP NV GT405=NV315 1GB SDDR3 HYNIX DVI	VG.PCPT4.010
	VGA CARD 288-5N141-B01AC GT405=NV315 512MB DDR3 SDI DVI/ HDMI LP	PCP NV GT405=NV315 512MB SDDR3 SDI DVI/H	VG.PCPT4.014
	VGA CARD 288-5N141-C01AC 405 (GT216) 512MB 64BITS DDR3 DVI + HDMI HYNIX DFR LP	PCP NV GT405=NV315 512MB SDDR3 HYNIX DVI	VG.PCPT4.016
	VGA CARD 288-2N214-A00AC GT520 1GB 64BIT DDR3 DVI + HDMI SAMSUNG LP	PCP NV GT520 1GB DDR3 SDI DVI/HDMI LP	VG.PCPT5.202
	VGA CARD 288-2N214-B00AC GT520 1GB 64BIT DDR3 DVI + HDMI HYNIX LP	PCP NV GT520 1GB DDR3 HYNIX DVI/HDMI LP	VG.PCPT5.204
CABLES 	DVI TO VGA DONGLE CONNECTOR	DVI TO VGA DONGLE	D0.VGA26.P01
	HDD SATA CABLE	C.A. SATA HDD GL APITBULL	50.SD101.002
	ODD CABLE SATA	C.A. SATA ODD GTL ELENA	50.SFF01.003
	ODD CABLE SATA	C.A. SATA ODD VSO ELENA	50.SFF01.004
	POWER CORD 110V 3PIN UL USA	POWER CORD 110V UL USA	27.01518.0I1
	POWER CORD 1800MM 250V EURO	POWER CORD 1800MM 250V EURO	27.01518.0J1
	POWER CORD 1800MM 250V CHINA	POWER CORD 250V CCC 1800MM PRC	27.01518.0K1
	POWER CORD 250V SWISS	POWER CORD 250V SWISS	27.01518.0L1
	POWER CORD 1830MM BLACK TW I-SHENG	POWER CORD 110V TW	27.01518.0M1
	POWER CORD AUSTRALIA WITH TESTED TAG	POWER CORD ACA WITH TESTED TAG	27.01518.0N1

Category	Part Name	Description	Acer Part No.
	POWER CORD 250V 3PIN INDIA	POWER CORD 250V INDIA	27.01518.0P1
	POWER CORD 1800MM BLACK S.AFRICA	POWER CORD 250V S AFRAICA	27.01518.0Q1
	POWER CORD 230V DENMARK	POWER CORD FOR DENMARK	27.01518.0S1
	POWER CORD 16A 250V 1800MM ISRAEL BLACK	POWER CORD 16A 250V ISRAEL BLK	27.01518.0Z1
	POWER CORD 125V 7A 3G JAPAN	CORD VCTF 3G 7A/ 125V(JAPAN)	27.01518.181
	POWER CORD 125V 10A BLACK MEXICO	POWER CORD 10A125V MEXICO BLK	27.01518.A01
	POWER CORD 250V 3PIN 1830MM BLACK THAILAND	POWER CORD FOR THAILAND 1830MM	27.01518.I51
	POWER CORD 250V 3PIN 1800MM UK	POWER CORD 1800MM 250V UK	27.03118.031
	POWER CORD 250V BRAZIL	POWER CORD 250V BRAZIL	27.01518.I01
	POWER CORD 7A 250V KOREA	CORD VCTF 3G 7A250V 1.8M KOREA	27.01518.171
	POWER CORD ARGENTINE,10A 250V 1.8M BK	CORD ARGENTINE,10A 250V 1.8M BK	27.01518.S11
	POWER CORD 250V 10A 1800MM ITALY	CORD 250V 10A 1800MM ITALY	27.01518.221
CASE/COVER/ BRACKET ASSEMBLY	ASSEMBLY UPPER CASE & LOWER CASE	ASSY MAIN-CHASSIS BOXER X1	60.SH201.001
	UPPER CASE	CAS UP BOXER X350	60.SE201.002
	ASSEMBLY LOWER CASE	ASSY LCASE-ASM BOXER X1	60.SG901.001
	ASSEMBLY FRONT BEZEL W/LED SWITCH CABLE FOR CARD READER	ASSY MAIN-BEZEL BOXER X1	60.SG901.002
	ASSEMBLY FRONT BEZEL W/LED SWITCH CABLE FOR NONE CARD READER	ASSY MAIN-BEZEL NO SD BOXER X1	60.SG901.003
	FRONT IO BRACKET	BRKT IO DOOR BOXER X1	33.SG901.001

Category	Part Name	Description	Acer Part No.
	HDD&ODD BRACKET	BRKT HDD BOXER EM	33.NCM01.002
DVD-RW DRIVE 	ODD HLDS DVD-ROM HH DL 16X DH40N LF+HF Black Bezel (HF+Win7) SATA	ODD DVD ROM SATA HH TL HLDS DH40N	KV.0160D.017
	ODD PLDS DVD-ROM HH DL 16X TRAY DH-16D5SH LF BLACK BEZEL SATA HF+WIN 7	DVD ROM HH HF+W7 DH-16D5SH	KV.0160F.002
	ODD HLDS SUPER-MULTI DRIVE HH DL 16X GH60N LF+HF BLACK BEZEL UG01 SATA (WIN7+HF)	ODD SUPER-MULTI HH HLDS GH60N	KU.0160D.054
HDD/HARD DISK DRIVE 	HDD WD 3.5" 5400RPM 1000GB WD10EADX-22TDHB0 (GP500) SATA III 32MB LF F/W:77.04D77	HDD 1TB 3.5" S3 WD10EADX-22TDHB0 GP 6G	KH.01K08.013
	HDD 1TB 7200RPM 3.5" SEAGATE ST31000528AS(PHARAOH BP) SATA II 32MB LF F/W:CC44	HDD 1TB 3.5" SEAGATE ST31000528AS 7.2K	KH.01K01.013
	HDD 1TB 3.5" 7200RPM SATA II 32MB HGST HDS721010CLA332 JUPITER	HDD 1TB HGST HDS721010CLA332	KH.01K07.003
	HDD 1TB 3.5" 5400RPM WD WD10EARS-22Y5B1 GP 5.4K	HDD 1TB 3.5" WD WD10EARS-22Y5B1 GP 5.4K	KH.01K08.008
	HDD 1TB 7200RPM 3.5" SEAGATE SATA3 ST31000524AS 6G 32MB	HDD 1TB3.5"S3 SEAGATE ST31000524AS 6G7.2	KH.01K01.016
	HDD 1.5TB 3.5" 5400RPM SATA II WD WD15EARS-22MVWB0 GP667-3D 64MB LF F/W:50.0AB50	HDD 1.5TB 3.5" WD15EARS-22MVWB0 GP 5.4K	KH.15K08.003
	HDD 1.5TB 3.5" 7200RPM SATA SEAGATE BRINKS ST31500341AS 32MB CC4H 7	HDD 1.5TB SGT ST31500341AS 7.2	KH.15K01.002
	HDD 160GB 3.5" 7200RPM SATA II WD WD1600AAJS-22L7A0 XL320S-3	HDD 160GB WD WD1600AAJS-22L7A0	KH.16008.025
	HDD 320G 7200RPM 3.5" SEAGATE ST3320418AS(PHARAOH BP) SATA II 16MB LF F/W:CC44	HDD 320GB 3.5" SEAGATE ST3320418AS 7.2K	KH.32001.020
	HDD 320GB 3.5" 7200RPM SATA II 16MB HGST HDS721032CLA362 JUPITER	HDD 320GB 3.5" HGST HDS721032CLA362 7.2K	KH.32007.011
	HDD 320GB 3.5" 7200RPM SATA II WD WD3200AAJS-22L7A0 XL320S	HDD 320GB WD WD3200AAJS-22L7A0	KH.32008.016
	HDD 320GB 3.5" 7200RPM SEAGATE PHARAOH SATA3 ST3320413AS FW:JC45 6G	HDD 320GB 3.5"S3 SGT ST3320413AS 6G 7.2K	KH.32001.022
	HDD WD 3.5" 7200RPM 320GB WD3200AAKX-221CA0(XL500-1D 6G) SATA III 16MB LF F/W:15.01H15	HDD 320GB 3.5" S3 WD3200AAKX-221CA0 7.2K	KH.32008.023
	HDD 500G 7200RPM 3.5" SEAGATE ST3500418AS(PHARAOH PB) SATA II 16MB LF F/W:CC44	HDD 500GB 3.5" SEAGATE ST3500418AS 7.2K	KH.50001.019

Category	Part Name	Description	Acer Part No.
	HDD 500GB 3.5" 7200RPM SATA II 16MB HGST HDS721050CLA362 JUPITER	HDD 500GB HGST HDS721050CLA362	KH.50007.012
	HDD 3.5" 500GB 7200RPM SATA WD XL320M WD5000AAKS-22M9A0	HDD 500GB WD5000AAKS-22V1A0	KH.50008.014
	HDD SEAGATE 3.5" 7200RPM 500GB ST3500413AS(PHARAOH 6G) SATA III 16MB LF F/W:JC45	HDD 500GB 3.5"S3 SGT ST3500413AS 6G 7.2K	KH.50001.022
	HDD WD 3.5" 7200RPM 500GB WD5000AAKX-221CA0(XL500-1D 6G) SATA III 16MB LF F/W:15.01H15	HDD 500GB 3.5" S3 WD5000AAKX-221CA0 7.2K	KH.50008.022
KEYBOARD 	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK US WITH MOUSE W/KB.RF40B.042 + MS.11200.073	KB&MS PACK RF LITEON A1B US	KB.RF40B.042
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK TRADITIONAL CHINESE WITH MOUSE W/ KB.RF40B.043 + MS.11200.073	KB&MS PACK RF LITEON A1B TC	KB.RF40B.043
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK SIMPLIFIED CHINESE WITH MOUSE W/ KB.RF40B.044 + MS.11200.073	KB&MS PACK RF LITEON A1B S-CHINESE	KB.RF40B.044
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK US INTERNATIONAL WITH MOUSE W/ KB.RF40B.045 + MS.11200.073	KB&MS PACK RF LITEON A1B US(INL)	KB.RF40B.045
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK ARABIC/ ENGLISH WITH MOUSE W/ KB.RF40B.046 + MS.11200.073	KB&MS PACK RF LITEON A1B EN(AR)	KB.RF40B.046
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK THAILAND WITH MOUSE W/KB.RF40B.047 + MS.11200.073	KB&MS PACK RF LITEON A1B TH	KB.RF40B.047
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SPANISH WITH MOUSE W/KB.RF40B.048 + MS.11200.073	KB&MS PACK RF LITEON A1B ES	KB.RF40B.048
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK PORTUGUESE WITH MOUSE W/KB.RF40B.049 + MS.11200.073	KB&MS PACK RF LITEON A1B PT	KB.RF40B.049
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK CANADIAN FRENCH WITH MOUSE W/ KB.RF40B.050 + MS.11200.073	KB&MS PACK RF LITEON A1B CA-FR	KB.RF40B.050
	KEYBOARD KIT 107KEY RF2.4 LITE-ON SK-9660B BLACK BRAZILIAN PORTUGUESE WITH MOUSE W/ KB.RF40B.051 + MS.11200.073	KB&MS PACK RF LITEON A1B XC	KB.RF40B.051
	KEYBOARD KIT 109KEY RF2.4 LITE-ON SK-9660B BLACK JAPANESE WITH MOUSE W/KB.RF40B.052 + MS.11200.073	KB&MS PACK RF LITEON A1B JA	KB.RF40B.052

Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK GERMAN WITH MOUSE W/KB.RF40B.053 + MS.11200.073	KB&MS PACK RF LITEON A1B DE	KB.RF40B.053
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK ITALIAN WITH MOUSE W/KB.RF40B.054 + MS.11200.073	KB&MS PACK RF LITEON A1B IT	KB.RF40B.054
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK FRENCH WITH MOUSE W/KB.RF40B.055 + MS.11200.073	KB&MS PACK RF LITEON A1B FR	KB.RF40B.055
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SWEDISH WITH MOUSE W/KB.RF40B.056 + MS.11200.073	KB&MS PACK RF LITEON A1B SV	KB.RF40B.056
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK UK WITH MOUSE W/KB.RF40B.057 + MS.11200.073	KB&MS PACK RF LITEON A1B UK	KB.RF40B.057
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK DUTCH WITH MOUSE W/KB.RF40B.058 + MS.11200.073	KB&MS PACK RF LITEON A1B DUTCH	KB.RF40B.058
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SWISS/G WITH MOUSE W/KB.RF40B.059 + MS.11200.073	KB&MS PACK RF LITEON A1B SW	KB.RF40B.059
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK BELGIUM WITH MOUSE W/KB.RF40B.060 + MS.11200.073	KB&MS PACK RF LITEON A1B BE	KB.RF40B.060
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK ICELANDIC WITH MOUSE W/KB.RF40B.061 + MS.11200.073	KB&MS PACK RF LITEON A1B ICELANDIC	KB.RF40B.061
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK NORWEGIAN WITH MOUSE W/KB.RF40B.062 + MS.11200.073	KB&MS PACK RF LITEON A1B NO	KB.RF40B.062
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK HEBREW WITH MOUSE W/KB.RF40B.063 + MS.11200.073	KB&MS PACK RF LITEON A1B HE	KB.RF40B.063
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK POLISH WITH MOUSE W/KB.RF40B.064 + MS.11200.073	KB&MS PACK RF LITEON A1B PL	KB.RF40B.064
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SLOVENIAN WITH MOUSE W/KB.RF40B.065 + MS.11200.073	KB&MS PACK RF LITEON A1B SL	KB.RF40B.065
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SLOVAK WITH MOUSE W/KB.RF40B.066 + MS.11200.073	KB&MS PACK RF LITEON A1B SLOVAK	KB.RF40B.066

Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK RUSSIAN WITH MOUSE W/KB.RF40B.067 + MS.11200.073	KB&MS PACK RF LITEON A1B RU	KB.RF40B.067
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK HUNGARIAN WITH MOUSE W/KB.RF40B.068 + MS.11200.073	KB&MS PACK RF LITEON A1B HU	KB.RF40B.068
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK GREEK WITH MOUSE W/KB.RF40B.069 + MS.11200.073	KB&MS PACK RF LITEON A1B GR	KB.RF40B.069
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK DANISH WITH MOUSE W/KB.RF40B.070 + MS.11200.073	KB&MS PACK RF LITEON A1B DA	KB.RF40B.070
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK CZECH WITH MOUSE W/KB.RF40B.071 + MS.11200.073	KB&MS PACK RF LITEON A1B CZ	KB.RF40B.071
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK ROMANIAN WITH MOUSE W/KB.RF40B.072 + MS.11200.073	KB&MS PACK RF LITEON A1B RO	KB.RF40B.072
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK TURKISH WITH MOUSE W/KB.RF40B.073 + MS.11200.073	KB&MS PACK RF LITEON A1B TR(F-TYPE)	KB.RF40B.073
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK TURKISH-Q WITH MOUSE W/KB.RF40B.074 + MS.11200.073	KB&MS PACK RF LITEON A1B TR(Q-TYPE)	KB.RF40B.074
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK ARABIC/FRENCH WITH MOUSE W/KB.RF40B.075 + MS.11200.073	KB&MS PACK RF LITEON A1B FR(AR)	KB.RF40B.075
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK KAZAKH WITH MOUSE W/KB.RF40B.076 + MS.11200.073	KB&MS PACK RF LITEON A1B KAZAKH	KB.RF40B.076
	KEYBOARD KIT 104KEY RF2.4 LITE-ON SK-9660B BLACK TURKMEN WITH MOUSE W/KB.RF40B.077 + MS.11200.073	KB&MS PACK RF LITEON A1B TURKMEM	KB.RF40B.077
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK NORDIC WITH MOUSE W/KB.RF40B.078 + MS.11200.073	KB&MS PACK RF LITEON A1B NOR	KB.RF40B.078
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK ENGLISH/ CANADIAN FRENCH WITH MOUSE W/ KB.RF40B.079 + MS.11200.073	KB&MS PACK RF LITEON A1B US/CA-FR	KB.RF40B.079
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK CZECH/SLOVAK WITH MOUSE W/KB.RF40B.080 + MS.11200.073	KB&MS PACK RF LITEON A1B CZ(SK)	KB.RF40B.080

Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 105KEY RF2.4 LITE-ON SK-9660B BLACK SWISS/FR WITH MOUSE W/KB.RF40B.081 + MS.11200.073	KB&MS PACK RF LITEON A1B SWISS/FR	KB.RF40B.081
	KEYBOARD KIT 106KEY RF2.4 LITE-ON SK-9660B BLACK KOREAN WITH MOUSE W/KB.RF40B.082 + MS.11200.073	KB&MS PACK RF LITEON A1B KO	KB.RF40B.082
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK US WITH MOUSE W/KB.RF40P.001 + MS.11200.078	KB&MS PACK RF PRIMAX A1B US	KB.RF40P.001
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK TRADITIONAL CHINESE WITH MOUSE W/ KB.RF40P.002 + MS.11200.078	KB&MS PACK RF PRIMAX A1B TC	KB.RF40P.002
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK SIMPLIFIED CHINESE WITH MOUSE W/ KB.RF40P.003 + MS.11200.078	KB&MS PACK RF PRIMAX A1B S-CHINESE	KB.RF40P.003
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK US INTERNATIONAL WITH MOUSE W/ KB.RF40P.004 + MS.11200.078	KB&MS PACK RF PRIMAX A1B US(INL)	KB.RF40P.004
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK ARABIC/ENGLISH WITH MOUSE W/KB.RF40P.005 + MS.11200.078	KB&MS PACK RF PRIMAX A1B EN(AR)	KB.RF40P.005
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK THAILAND WITH MOUSE W/KB.RF40P.006 + MS.11200.078	KB&MS PACK RF PRIMAX A1B TH	KB.RF40P.006
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK SPANISH WITH MOUSE W/KB.RF40P.007 + MS.11200.078	KB&MS PACK RF PRIMAX A1B ES	KB.RF40P.007
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK PORTUGUESE WITH MOUSE W/KB.RF40P.008 + MS.11200.078	KB&MS PACK RF PRIMAX A1B PT	KB.RF40P.008
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK CANADIAN FRENCH WITH MOUSE W/ KB.RF40P.009 + MS.11200.078	KB&MS PACK RF PRIMAX A1B CA-FR	KB.RF40P.009
	KEYBOARD KIT 107KEY RF2.4 PRIMAX KBRF36211 BLACK BRAZILIAN PORTUGUESE WITH MOUSE W/ KB.RF40P.010 + MS.11200.078	KB&MS PACK RF PRIMAX A1B XC	KB.RF40P.010
	KEYBOARD KIT 109KEY RF2.4 PRIMAX KBRF36211 BLACK JAPANESE WITH MOUSE W/KB.RF40P.011 + MS.11200.078	KB&MS PACK RF PRIMAX A1B JA	KB.RF40P.011
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK GERMAN WITH MOUSE W/KB.RF40P.012 + MS.11200.078	KB&MS PACK RF PRIMAX A1B DE	KB.RF40P.012

Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK ITALIAN WITH MOUSE W/KB.RF40P.013 + MS.11200.078	KB&MS PACK RF PRIMAX A1B IT	KB.RF40P.013
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK FRENCH WITH MOUSE W/KB.RF40P.014 + MS.11200.078	KB&MS PACK RF PRIMAX A1B FR	KB.RF40P.014
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK SWEDISH WITH MOUSE W/KB.RF40P.015 + MS.11200.078	KB&MS PACK RF PRIMAX A1B SV	KB.RF40P.015
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK UK WITH MOUSE W/KB.RF40P.016 + MS.11200.078	KB&MS PACK RF PRIMAX A1B UK	KB.RF40P.016
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK DUTCH WITH MOUSE W/KB.RF40P.017 + MS.11200.078	KB&MS PACK RF PRIMAX A1B DUTCH	KB.RF40P.017
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK SWISS/G WITH MOUSE W/KB.RF40P.018 + MS.11200.078	KB&MS PACK RF PRIMAX A1B SW	KB.RF40P.018
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK BELGIUM WITH MOUSE W/KB.RF40P.019 + MS.11200.078	KB&MS PACK RF PRIMAX A1B BE	KB.RF40P.019
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK ICELANDIC WITH MOUSE W/KB.RF40P.020 + MS.11200.078	KB&MS PACK RF PRIMAX A1B ICELANDIC	KB.RF40P.020
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK NORWEGIAN WITH MOUSE W/KB.RF40P.021 + MS.11200.078	KB&MS PACK RF PRIMAX A1B NO	KB.RF40P.021
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK HEBREW WITH MOUSE W/KB.RF40P.022 + MS.11200.078	KB&MS PACK RF PRIMAX A1B HE	KB.RF40P.022
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK POLISH WITH MOUSE W/KB.RF40P.023 + MS.11200.078	KB&MS PACK RF PRIMAX A1B PL	KB.RF40P.023
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK SLOVENIAN WITH MOUSE W/KB.RF40P.024 + MS.11200.078	KB&MS PACK RF PRIMAX A1B SL	KB.RF40P.024
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK SLOVAK WITH MOUSE W/KB.RF40P.025 + MS.11200.078	KB&MS PACK RF PRIMAX A1B SLOVAK	KB.RF40P.025
	KEYBOARD KIT P104KEY RF2.4 RIMAX KBRF36211 BLACK RUSSIAN WITH MOUSE W/KB.RF40P.026 + MS.11200.078	KB&MS PACK RF PRIMAX A1B RU	KB.RF40P.026

Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK HUNGARIAN WITH MOUSE W/KB.RF40P.027 + MS.11200.078	KB&MS PACK RF PRIMAX A1B HU	KB.RF40P.027
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK GREEK WITH MOUSE W/KB.RF40P.028 + MS.11200.078	KB&MS PACK RF PRIMAX A1B GR	KB.RF40P.028
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK DANISH WITH MOUSE W/KB.RF40P.029 + MS.11200.078	KB&MS PACK RF PRIMAX A1B DA	KB.RF40P.029
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK CZECH WITH MOUSE W/KB.RF40P.030 + MS.11200.078	KB&MS PACK RF PRIMAX A1B CZ	KB.RF40P.030
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK ROMANIAN WITH MOUSE W/KB.RF40P.031 + MS.11200.078	KB&MS PACK RF PRIMAX A1B RO	KB.RF40P.031
	KEYBOARD KIT P105KEY RF2.4 RIMAX KBRF36211 BLACK TURKISH WITH MOUSE W/KB.RF40P.032 + MS.11200.078	KB&MS PACK RF PRIMAX A1B TR(F-TYPE)	KB.RF40P.032
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 RF2.4 105KS BLACK TURKISH-Q WITH MOUSE W/ KB.RF40P.033 + MS.11200.078	KB&MS PACK RF PRIMAX A1B TR(Q-TYPE)	KB.RF40P.033
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK ARABIC/FRENCH WITH MOUSE W/KB.RF40P.034 + MS.11200.078	KB&MS PACK RF PRIMAX A1B FR(AR)	KB.RF40P.034
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK KAZAKH WITH MOUSE W/KB.RF40P.035 + MS.11200.078	KB&MS PACK RF PRIMAX A1B KAZAKH	KB.RF40P.035
	KEYBOARD KIT 104KEY RF2.4 PRIMAX KBRF36211 BLACK TURKMEN WITH MOUSE W/KB.RF40P.036 + MS.11200.078	KB&MS PACK RF PRIMAX A1B TURKMEM	KB.RF40P.036
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK NORDIC WITH MOUSE W/KB.RF40P.037 + MS.11200.078	KB&MS PACK RF PRIMAX A1B NOR	KB.RF40P.037
	KEYBOARD KIT 105KEY RF2.4 PRIMAX KBRF36211 BLACK ENGLISH/ CANADIAN FRENCH WITH MOUSE W/ KB.RF40P.038 + MS.11200.078	KB&MS PACK RF PRIMAX A1B US/CA-FR	KB.RF40P.038
	KEYBOARD KIT P105KEY RF2.4 RIMAX KBRF36211 BLACK CZECH/SLOVAK WITH MOUSE W/KB.RF40P.039 + MS.11200.078	KB&MS PACK RF PRIMAX A1B CZ(SK)	KB.RF40P.039
	KEYBOARD KIT P105KEY RF2.4 RIMAX KBRF36211 BLACK SWISS/FR WITH MOUSE W/KB.RF40P.040 + MS.11200.078	KB&MS PACK RF PRIMAX A1B SWISS/FR	KB.RF40P.040

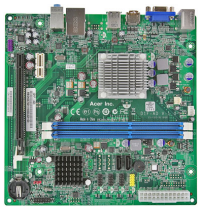
Category	Part Name	Description	Acer Part No.
	KEYBOARD KIT 106KEY RF2.4 PRIMAX KBRF36211 BLACK KOREAN WITH MOUSE W/KB.RF40P.041 + MS.11200.078	KB&MS PACK RF PRIMAX A1B KO	KB.RF40P.041
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK US	KB SK-9621B USB 104K BLACK US	KB.USB0B.330
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK US	KB PRIMAX KB36211 USB 104KS BLACK US	KB.USB0P.001
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK TRADITIONAL CHINESE	KB SK-9621B USB 104K BLACK TRADITIONAL C	KB.USB0B.331
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK SIMPLIFIED CHINESE	KB SK-9621B USB 104K BLACK SIMPLIFIED CH	KB.USB0B.332
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK US INTERNATIONAL	KB SK-9621B USB 104K BLACK US INTERNATIO	KB.USB0B.333
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK US INTERNATIONAL	KB PRIMAX KB36211 USB 104KS BLACK US INT	KB.USB0P.004
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK ARABIC/ENGLISH	KB SK-9621B USB 104K BLACK ARABIC/ENGLIS	KB.USB0B.334
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK THAILAND	KB SK-9621B USB 104K BLACK THAILAND	KB.USB0B.335
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SPANISH	KB SK-9621B USB 105K BLACK SPANISH	KB.USB0B.336
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK PORTUGUESE	KB SK-9621B USB 105K BLACK PORTUGUESE	KB.USB0B.337
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK CANADIAN FRENCH	KB SK-9621B USB 105K BLACK CANADIAN FREN	KB.USB0B.338
	KEYBOARD 107KEY USB LITE-ON SK-9621B BLACK BRAZILIAN PORTUGUESE	KB SK-9621B USB 107KS BLACK BRAZILIAN PO	KB.USB0B.339
	KEYBOARD 109KEY USB LITE-ON SK-9621B BLACK JAPANESE	KB SK-9621B USB 109K BLACK JAPANESE	KB.USB0B.340
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK GERMAN	KB SK-9621B USB 105K BLACK GERMAN	KB.USB0B.341
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK ITALIAN	KB SK-9621B USB 105K BLACK ITALIAN	KB.USB0B.342
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK FRENCH	KB SK-9621B USB 105K BLACK FRENCH	KB.USB0B.343
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SWEDISH	KB SK-9621B USB 105K BLACK SWEDISH	KB.USB0B.344
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK UK	KB SK-9621B USB 105K BLACK UK	KB.USB0B.345
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK DUTCH	KB SK-9621B USB 105K BLACK DUTCH	KB.USB0B.346
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SWISS/G	KB SK-9621B USB 105K BLACK SWISS/G	KB.USB0B.347
	KEYBOARD 105KEY USB ITE-ON SK-9621B BLACK BELGIUM	KB SK-9621B USB 105K BLACK BELGIUM	KB.USB0B.348
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK ICELANDIC	KB SK-9621B USB 105K BLACK ICELANDIC	KB.USB0B.349
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK NORWEGIAN	KB SK-9621B USB 105K BLACK NORWEGIAN	KB.USB0B.350

Category	Part Name	Description	Acer Part No.
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK HEBREW	KB SK-9621B USB 104K BLACK HEBREW	KB.USB0B.351
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK POLISH	KB SK-9621B USB 105K BLACK POLISH	KB.USB0B.352
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SLOVENIAN	KB SK-9621B USB 105K BLACK SLOVENIAN	KB.USB0B.353
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SLOVAK	KB SK-9621B USB 105K BLACK SLOVAK	KB.USB0B.354
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK RUSSIAN	KB SK-9621B USB 104K BLACK RUSSIAN	KB.USB0B.355
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK HUNGARIAN	KB SK-9621B USB 105K BLACK HUNGARIAN	KB.USB0B.356
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK GREEK	KB SK-9621B USB 104K BLACK GREEK	KB.USB0B.357
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK DANISH	KB SK-9621B USB 105K BLACK DANISH	KB.USB0B.358
	KEYBOARD 104KEY USB ITE-ON SK-9621B BLACK CZECH	KB SK-9621B USB 104K BLACK CZECH	KB.USB0B.359
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK ROMANIAN	KB SK-9621B USB 105K BLACK ROMANIAN	KB.USB0B.360
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK TURKISH	KB SK-9621B USB 105K BLACK TURKISH	KB.USB0B.361
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK TURKISH-Q	KB SK-9621B USB 105K BLACK TURKISH-Q	KB.USB0B.362
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK ARABIC/FRENCH	KB SK-9621B USB 105K BLACK ARABIC/FRENCH	KB.USB0B.363
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK KAZAKH	KB SK-9621B USB 104K BLACK KAZAKH	KB.USB0B.364
	KEYBOARD 104KEY USB LITE-ON SK-9621B BLACK TURKMEN	KB SK-9621B USB 104K BLACK TURKMEN	KB.USB0B.365
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK NORDIC	KB SK-9621B USB 105K BLACK NORDIC	KB.USB0B.366
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK ENGLISH/CANADIAN FRENCH	KB SK-9621B USB 105K BLACK ENGLISH/CANAD	KB.USB0B.367
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK ENGLISH/CANADIAN FRENCH	KB PRIMAX KB36211 USB 105KS BLACK ENGLIS	KB.USB0P.038
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK CZECH/SLOVAK	KB SK-9621B USB 105K BLACK CZECH/SLOVAK	KB.USB0B.368
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SWISS/FR	KB SK-9621B USB 105K BLACK SWISS/FR	KB.USB0B.369
	KEYBOARD 106KEY USB LITE-ON SK-9621B BLACK KOREAN	KB SK-9621B USB 106K BLACK KOREAN	KB.USB0B.370
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK TRADITIONAL CHINESE	KB PRIMAX KB36211 USB 104KS BLACK TRADIT	KB.USB0P.002
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK SIMPLIFIED CHINESE	KB PRIMAX KB36211 USB 104KS BLACK SIMPLI	KB.USB0P.003
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK ARABIC/ENGLISH	KB PRIMAX KB36211 USB 104KS BLACK ARABIC	KB.USB0P.005

Category	Part Name	Description	Acer Part No.
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK THAILAND	KB PRIMAX KB36211 USB 104KS BLACK THAILA	KB.USB0P.006
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SPANISH	KB PRIMAX KB36211 USB 105KS BLACK SPANIS	KB.USB0P.007
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK PORTUGUESE	KB PRIMAX KB36211 USB 105KS BLACK PORTUG	KB.USB0P.008
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK CANADIAN FRENCH	KB PRIMAX KB36211 USB 105KS BLACK CANADI	KB.USB0P.009
	KEYBOARD 107KEY USB PRIMAX KB36211 USB BRAZILIAN PORTUGUESE	KB PRIMAX KB36211 USB 107KS BLACK BRAZIL	KB.USB0P.010
	KEYBOARD 109KEY USB PRIMAX KB36211 BLACK JAPANESE	KB PRIMAX KB36211 USB 109KS BLACK JAPANE	KB.USB0P.011
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK GERMAN	KB PRIMAX KB36211 USB 105KS BLACK GERMAN	KB.USB0P.012
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK ITALIAN	KB PRIMAX KB36211 USB 105KS BLACK ITALIA	KB.USB0P.013
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK FRENCH	KB PRIMAX KB36211 USB 105KS BLACK FRENCH	KB.USB0P.014
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SWEDISH	KB PRIMAX KB36211 USB 105KS BLACK SWEDIS	KB.USB0P.015
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK UK	KB PRIMAX KB36211 USB 105KS BLACK UK	KB.USB0P.016
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK DUTCH	KB PRIMAX KB36211 USB 105KS BLACK DUTCH	KB.USB0P.017
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SWISS/G	KB PRIMAX KB36211 USB 105KS BLACK SWISS/	KB.USB0P.018
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK BELGIUM	KB PRIMAX KB36211 USB 105KS BLACK BELGIU	KB.USB0P.019
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK ICELANDIC	KB PRIMAX KB36211 USB 105KS BLACK ICELAN	KB.USB0P.020
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK NORWEGIAN	KB PRIMAX KB36211 USB 105KS BLACK NORWEG	KB.USB0P.021
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK HEBREW	KB PRIMAX KB36211 USB 104KS BLACK HEBREW	KB.USB0P.022
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK POLISH	KB PRIMAX KB36211 USB 105KS BLACK POLISH	KB.USB0P.023
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SLOVENIAN	KB PRIMAX KB36211 USB 105KS BLACK SLOVEN	KB.USB0P.024
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SLOVAK	KB PRIMAX KB36211 USB 105KS BLACK SLOVAK	KB.USB0P.025
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK RUSSIAN	KB PRIMAX KB36211 USB 104KS BLACK RUSSIA	KB.USB0P.026
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK HUNGARIAN	KB PRIMAX KB36211 USB 105KS BLACK HUNGAR	KB.USB0P.027
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK GREEK	KB PRIMAX KB36211 USB 104KS BLACK GREEK	KB.USB0P.028
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK DANISH	KB PRIMAX KB36211 USB 105KS BLACK DANISH	KB.USB0P.029
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK CZECH	KB PRIMAX KB36211 USB 104KS BLACK CZECH	KB.USB0P.030

Category	Part Name	Description	Acer Part No.
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK ROMANIAN	KB PRIMAX KB36211 USB 105KS BLACK ROMANI	KB.USB0P.031
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK TURKISH	KB PRIMAX KB36211 USB 105KS BLACK TURKIS	KB.USB0P.032
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK TURKISH-Q	KB PRIMAX KB36211 USB 105KS BLACK TURKIS	KB.USB0P.033
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK ARABIC/FRENCH	KB PRIMAX KB36211 USB 105KS BLACK ARABIC	KB.USB0P.034
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK KAZAKH	KB PRIMAX KB36211 USB 104KS BLACK KAZAKH	KB.USB0P.035
	KEYBOARD 104KEY USB PRIMAX KB36211 BLACK TURKMEN	KB PRIMAX KB36211 USB 104KS BLACK TURKME	KB.USB0P.036
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK NORDIC	KB PRIMAX KB36211 USB 105KS BLACK NORDIC	KB.USB0P.037
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK CZECH/SLOVAK	KB PRIMAX KB36211 USB 105KS BLACK CZECH/	KB.USB0P.039
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SWISS/FR	KB PRIMAX KB36211 USB 105KS BLACK SWISS/	KB.USB0P.040
	KEYBOARD 106KEY USB PRIMAX KB36211 BLACK KOREAN	KB PRIMAX KB36211 USB 106KS BLACK KOREAN	KB.USB0P.041
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK US	KB SK-9611 PS/2? 104K? BLACK? US	KB.PS20B.115
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK TRADITIONAL CHINESE	KB SK-9611 ?PS/2? 104K? BLACK TRADITION	KB.PS20B.116
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK SIMPLIFIED CHINESE	KB SK-9611 ?PS/2 ?104K ?BLACK SIMPLIFIED	KB.PS20B.117
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK US INTERNAL	KB SK-9611 ?PS/2? 104K ?BLACK US? INTERN	KB.PS20B.118
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK ARABIC/ENGLISH	KB SK-9611 PS/2? ?104K? BLACK ARABIC/EN	KB.PS20B.119
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK THAILAND	KB SK-9611 ?PS/2? ?104K ?BLACK THAILAND	KB.PS20B.120
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 LACK SPANISH	KB SK-9611 ?PS/2? ?105K? BLACK SPANISH	KB.PS20B.121
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK PORTUGUESE	KB?SK-9611 ?PS/2 ?105K BLACK PORTUGUESE	KB.PS20B.122
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK CANADIAN FRENCH	KB?SK-9611 ?PS/2 ?105K? BLACK CANADIAN?	KB.PS20B.123
	KEYBOARD 107KEY PS/2 LITE-ON SK-9611 BLACK BRAZILIAN PORTUGUESE	KB SK-9611 ?PS/2 ?107K ?BLACK ?BRAZILIAN	KB.PS20B.124
	KEYBOARD 109KEY PS/2 LITE-ON SK-9611 BLACK JAPANESE	KB SK-9611 ?PS/2 ?109K ?BLACK JAPANESE	KB.PS20B.125
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK GERMAN	KB SK-9611 ?PS/2 ?105K? BLACK GERMAN	KB.PS20B.126
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK ITALIAN	KB SK-9611 ?PS/2 ?105K? BLACK ?ITALIAN	KB.PS20B.127
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK FRENCH	KB SK-9611 ?PS/2 105K? BLACK ?FRENCH	KB.PS20B.128
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SWEDISH	KB SK-9611 ?PS/2 ?105K? BLACK ?SWEDISH	KB.PS20B.129

Category	Part Name	Description	Acer Part No.
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK UK	KB SK-9611 ?PS/2 ?105K ?BLACK ?UK	KB.PS20B.130
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK DUTCH	KB SK-9611 ?PS/2 ?105K ?BLACK DUTCH	KB.PS20B.131
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SWISS/G	KB SK-9611 ?PS/2 ?105K? BLACK ?SWISS/G	KB.PS20B.132
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK BELGIUM	KB SK-9611 PS/2 ?105K? BLACK BELGIUM	KB.PS20B.133
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK ICELANDIC	KB SK-9611 ?PS/2 ?105K? BLACK ?ICELANDIC	KB.PS20B.134
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK NORWEGIAN	KB SK-9611 ?PS/2 ?105K? BLACK ?NORWEGIAN	KB.PS20B.135
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK HEBREW	KB SK-9611 ?PS/2 ?104K? BLACK ?HEBREW	KB.PS20B.136
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK POLISH	KB SK-9611 ?PS/2 ?105K ?BLACK ?POLISH	KB.PS20B.137
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SLOVENIAN	KB SK-9611 ?PS/2 ?105K? BLACK ?SLOVENIAN	KB.PS20B.138
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SLOVAK	KB SK-9611 ?PS/2 105K? BLACK SLOVAK	KB.PS20B.139
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK RUSSIAN	KB SK-9611 ?PS/2?104K ?BLACK ?RUSSIAN	KB.PS20B.140
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK HUNGARIAN	KB SK-9611 ?PS/2 ?105K? BLACK ?HUNGARIAN	KB.PS20B.141
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK GREEK	KB SK-9611 ?PS/2 ?104K ?BLACK ?GREEK	KB.PS20B.142
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK DANISH	KB SK-9611 ?PS/2 105K ?BLACK ?DANISH	KB.PS20B.143
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK CZECH	KB SK-9611 ?PS/2 ?104K? BLACK ?CZECH	KB.PS20B.144
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK ROMANIAN	KB SK-9611 ?PS/2 ?105K? BLACK ?ROMANIAN	KB.PS20B.145
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK TURKISH	KB SK-9611 ?PS/2 105K? BLACK TURKISH	KB.PS20B.146
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK TURKISH-Q	KB SK-9611 ?PS/2 ?105K? BLACK TURKISH-Q	KB.PS20B.147
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK ARABIC/FRENCH	KB SK-9611 ?PS/2 ?105K? BLACK ARABIC/FRE	KB.PS20B.148
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK KAZAKH	KB SK-9611 ?PS/2 ?104K? BLACK KAZAKH	KB.PS20B.149
	KEYBOARD 104KEY PS/2 LITE-ON SK-9611 BLACK TURKMEN	KB SK-9611 ?PS/2 ?104K? BLACK ?TURKMEN	KB.PS20B.150
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK NORDIC	KB SK-9611 ?PS/2 ?105K? BLACK ?NORDIC	KB.PS20B.151
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK ENGLISH/CANADIAN FRENCH	KB SK-9611 ?PS/2 ?105K? BLACK ENGLISH/CA	KB.PS20B.152
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 105KS BLACK CZECH/SLOVAK	KB SK-9611 ?PS/2 105K? BLACK ?CZECH/SLOV	KB.PS20B.153
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SWISS/FR	KB SK-9611 ?PS/2 ?105K? BLACK ?SWISS/FR	KB.PS20B.154

Category	Part Name	Description	Acer Part No.
	KEYBOARD 106KEY PS/2 LITE-ON SK-9611 BLACK KOREAN	KB SK-9611 ?PS/2 106K ?BLACK ?KOREAN	KB.PS20B.155
	KEYBOARD 105KEY PS/2 LITE-ON SK-9611 BLACK SPANISH LATIN	KB SK-9611 PS/2 105K BLACK SPANISH LATIN	KB.PS20B.156
	KEYBOARD 105KEY USB LITE-ON SK-9621B BLACK SPANISH LATIN	KB SK-9621B USB 105KS BLACK SPANISH LAT	KB.USB0B.377
	KEYBOARD 105KEY USB PRIMAX KB36211 BLACK SPANISH LATIN	KB KB36211 USB 106KS BLACK SPANISH LATIN	KB.USB0P.083
MAINBOARD 	MB KIT AX1430_W AMD AMD D1 AMD RADEON HD6310 REALTEK RTL8111E V.C LF DTX V1.1 W/IO SHIELDING & CPU & HEATSINK W/O DIMM	MB KIT AX1430_W AMD AMD D1 AMD RADEON HD	MB.SH207.001
MEMORY 	MEMORY NANYA UNB-DIMM DDRIII 1333 1GB NT1GC64BH4B0PF-CG LF 128*16 0.055UM	DIMM 1G NT1GC64BH4B0PF-CG DDR3 UNB.	KN.1GB03.035
	MEMORY KINGSTON DDR3 1333MHZ 1G ACR128X64D3U1333C9	DIMM 1G ACR128X64D3U1333C9	KN.1GB07.002
	MEMORY UNIFOSA DDR3 1333MHZ 1G UNB-DIMM GU502203EP0201 LF 128*8 0.065UM	DIMM 1G GU502203EP0201 UNB.	KN.1GB0H.015
	MEMORY KINGSTON DDR3 1333MHZ 2G UNB ACR256X64D3U1333C9	DIMM 2G ACR256X64D3U1333C9	KN.2GB07.002
	MEMORY KINGSTON UNB-DIMM DDRIII 1333 2GB ACR256X64D3U13C9G LF+HF	DIMM 2G ACR256X64D3U13C9G DDR3 UNB.	KN.2GB07.007
	MEMORY UNIFOSA UNB-DIMM DDRIII 1333 2GB HU524303EP0200 LF 256*8 46NM	DIMM 2G HU524303EP0200 DDR3 1333MHZ UNB.	KN.2GB0H.012
	MEMORY NANYA UNB-DIMM DDRIII 1333 2GB NT2GC64B88B0NF-CG LF 256*8 0.055UM	DIMM 2G NT2GC64B88B0NF-CG DDR3 UNB.	KN.2GB03.022
	MEMORY NANYA UNB-DIMM DDRIII 1333 4GB NT4GC64B8HB0NF-CG LF 256*8 0.055UM	DIMM 4G NT4GC64B8HB0NF-CG DDR3 UNB.	KN.4GB03.006
	MEMORY KINGSTON UNB-DIMM DDRIII 1333 4GB ACR512X64D3U13C9G LF+HF	DIMM 4G ACR512X64D3U13C9G DDR3 UNB.	KN.4GB07.002
	MEMORY UNIFOSA UNB-DIMM DDRIII 1333 4GB HU564403EP0200 LF 256*8 46NM	DIMM 4G HU564403EP0200 DDR3 1333MHZ UNB.	KN.4GB0H.001
POINTING DEVICE 	MOUSE PRIMAX OPTICAL MOUSE PS2 MOFGKO	MOUSE PRIMAX OPTICAL PS2 MOFGKO	MS.11200.082
	MOUSE LOGITECH OPTICAL MOUSE PS2 M-S0004-O	MOUSE PS2 OPT M-S0004-O FOR ASPIRE/ EM/PB	MS.11200.080
	MOUSE USB LITEON SM9020B OPTICAL NI BLACK	MOUSE SM9020B OPTICAL NI LITEON	MS.11200.074
	MOUSE USB A1B PRIMAX MOF9UO BLACK COLOR	MOUSE USB A1B MOF9UO BLACK COLOR PRIMAX	MS.11200.079

Category	Part Name	Description	Acer Part No.
POWER SUPPLY 	POWER SUPPLY 220W FULL EPS5.0 DELTA DPS-220UB-5A EUP 82+	SPS 220W EUP 82PLUS FULL DPS-220UB-5A(NE	PY.22009.011
	POWER SUPPLY 220W LITE-ON FULL PS-5221-9AB 8.5L EUP 82+	SPS FR 220W (8.5L) EUP 82+ PS-5221-9AB A	PY.2200B.011
	POWER SUPPLY 220W CHICONYPOWER EPA CPB09-D220E AAGASSI	SPS 220W EPA CPB09-D220E (FR 220W, ES) A	PY.2200F.006
	POWER SUPPLY 220W EUP 115VAC/ 230V NPFC DELTA DPS-220UB-3A EUP	SPS 220W EUP 115VAC/ 230V NPFC EUP DPS-22	PY.22009.009
	POWER SUPPLY 220W LITE-ON NPFC 115V/230V PS-5221-06A2 EUP	SPS NON-PFC 220W (8.5L) EUP PS-5221-06A2	PY.2200B.009
	POWER SUPPLY 220W CHICONYPOWER REGULAR CPB09-D220R AAGASSI	SPS 220W REGULAR CPB09-D220R AAGA	PY.2200F.004
	POWER SUPPLY 220W PFC 230V DELTA DPS-220UB-4A EUP	SPS 220W EUP PFC 230V DPS-220UB-4A(NEW)	PY.22009.010
	POWER SUPPLY 220W LITE-ON PFC 230V PE-5221-08AF EUP	SPS PFC 220W (8.5L) EUP PE-5221-08AF ABO	PY.2200B.010
	POWER SUPPLY 220W CHICONYPOWER PFC CPB09-D220A AAGASSI	SPS 220W PFC CPB09-D220A AAGASSI	PY.2200F.005
SCREWS	SCREW I NO6-32 L5 BZN	SCRW I NO6-32 L5 BZN	86.00J07.B60
	SCREW PAN #6-32 L6 NI BOXER WZS	SCRW PAN #6-32 L6 NI BOXER WZS	86.00J44.C60
	SCREW PAN M3 L5 BZN	SCRW PAN M3 L5 BZN	86.1A324.5R0
	SCREW FLAT #6-32*3/16 NI	SCREW FLAT #6-32*3/16 NI	86.5A5B6.012
	SCREW MA HEX #6-32 5MM NI	SCRW MA HEX #6-32 5MM NI	86.2G5B6.013

Appendix A

Technical Specifications

This appendix list the technical specifications of the Aspire AX1430 hardware components.

Processor

Common features:

- Socket: BGA
- Package type: 45 nm

Item	Specification
Series	AMD Brazos Series
Model	E350
No. of cores	2
Base frequency	1.6 GHz
L2 cache	1.0 MB
DDR3 speed support	Yes
Thermal design power	18W

Chipsets

Item	Specification
Chipset	• AMD Hudson D1

BIOS

Item	Specification
BIOS chip	AMI BIOS
Setup utility	CMOS Setup Utility

Memory

Item	Specification
Controller	Integrated in the AMD Fusion
Number of DIMM slot	Two dual-channel slots
Maximum memory	16 GB (using two 4 GB modules)
Data rate	800/1066/1333 MT/s
Supported capacities	1-, 2- or 4GB
DIMM type	240-pin DDR3 SO-DIMM
Supported brands	Kingston, Micron, Nanya, Samsung, Unifosa
Population rule	You can install memory modules in any combination as long as they match the above specifications.

Hard Disk Drive

Item	Specification
Controller	Integrated in the AMD Hudson D1 Chipset
Number of HDD bays	1
Form factor	3.5-inch 25.4 mm
Interface	SATA 3.0
Supported capacities	
160 GB	• HGST Jupiter – HDS721016CLA382 • Seagate Pharoah – ST3160313AS
320 GB	• HGST Jupiter – HDS721032CLA362 • Seagate Pharoah – ST3320413AS • WD – WD3200AAKX-221CA0
500 GB	• HGST Jupiter – HDS721050CLA362 • Seagate Pharoah – ST3500413AS • WD – WD5000AAKX-221CA0
1000 GB	• HGST Jupiter – HDS721010CLA332 • Seagate Pharoah – ST31000524AS • WD – WD10EADX-22TDHB0 • WD – WD10EARS-22Y5B1
1500 GB	• Seagate Brinks – ST31500341AS • WD – WD15EARS-22MVWB0

Optical Disc Drive

Item	Specification
Controller	Integrated in the AMD Hudson D1 Chipset
Type	Supports DVD-R/RW drive or DVD-Super Multi double-layer drive
Form factor	5.25-inch standard
Interface	SATA
Write/read speed	16x
Supported models	• HLDS DH40N/GH60N • PLDS DH-16D5SH/DH-16ABSH

Card Reader (optional)

Item	Specification
Controller	4-in1
Card compatibility	• Memory Stick PRO (MS PRO) and Memory Stick (MS) - supports up to 32 GB • xD-Picture Card (xD) - supports up to 2 GB • Secure Digital (SD) - supports up to 2 TB • MultiMedia Card (MMC) - supports up to 32 GB

Gigabit Ethernet

Item	Specification
Controller	• Realtek RTL8111E-VL (Single-Chip/Port 10/100 Fast Ethernet PHYceiver with Auto MDIX)
LAN protocol	10/100/1000 Mbit
LAN connector type	RJ-45

Audio

Item	Specification
Controller	• Realtek ALC662 5.1 Channel High Definition Audio Codec
Audio jacks	• Front panel: Headphone and microphone jacks • Rear panel: Microphone, line-out, and line-in jacks

Power Supply Unit

Item	Specification
Vendor and Model	• Delta - DPS-220UB 3A (non-PFC) • Delta - DPS-220UB-4A (PFC) • Delta - DPS-220UB-5A (FR) • Lite-On - PS-5221-06A2 (non-PFC) • Lite-On - PE-5221-08AF (PFC) • Lite-On - PS-5221-9AB (FR) • CP - CPB09-D220R (non-PFC) • CP - CPB09-D220A (PFC) • CP - CPB09-D220E (FR)
Input	100-127V ~/6A - 220V-240V ~/3.15A 50-60 Hz
Output (max.)	220 W
Connectors	• 1 x 20/24-pin ATX connector • 1 x 4-pin ATX connector • 2 x SATA connectors

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

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