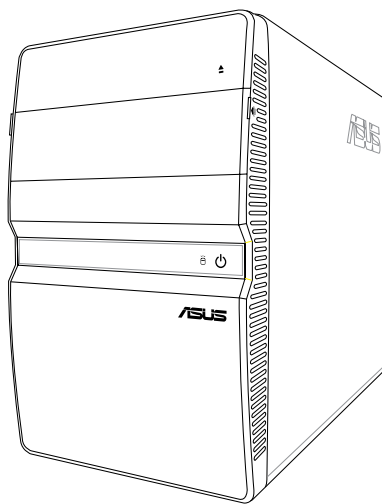


**ASUS<sup>®</sup>**

**CT5430**

*ASUS Desktop PC*



E3636

Second Edition V2

December 2007

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# Notices

## Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with manufacturer's instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



---

The use of shielded cables for connection of the monitor to the graphics card is required to assure compliance with FCC regulations. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

---

## Canadian Department of Communications Statement

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

**This class B digital apparatus complies with Canadian ICES-003.**

## Macrovision Corporation Product Notice

This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.

# Safety information

## Electrical safety

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

## Operation safety

- Before installing devices into the system, carefully read all the documentation that came with the package.
- Before using the product, ensure that all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet. Place the product on a stable surface.
- When using the product, do not block any air inlet/outlet in the chassis.
- The maximum environmental temperature is 35°C.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.

### *Lithium-Ion Battery Warning*

**CAUTION:** Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

**VORSICHT:** Explosionsgefahr bei unsachgemäßen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

### ***LASER PRODUCT WARNING***

**CLASS 1 LASER PRODUCT**

# About this guide

## Audience

This guide provides general information and installation instructions about ASUS CT5430 Desktop PC. This guide is intended for experienced users and integrators with hardware knowledge of personal computers.

## How this guide is organized

This guide contains the following parts:

### 1. Chapter 1: System introduction

This chapter gives a general description of ASUS CT5430. The chapter lists the system features, including introduction on the front and rear panel, and internal components.

### 2. Chapter 2: Basic installation

This chapter provides step-by-step instructions on how to install components in the system.

### 3. Appendix

The Appendix includes the information on recovering your system, and troubleshooting.

## Conventions used in this guide



**WARNING:** Information to prevent injury to yourself when trying to complete a task.



**CAUTION:** Information to prevent damage to the components when trying to complete a task.



**IMPORTANT:** Instructions that you **MUST** follow to complete a task.



**NOTE:** Tips and additional information to aid in completing a task.

## Where to find more information

Refer to the following sources for additional information and for product and software updates.

### 1. **ASUS Websites**

The ASUS websites worldwide provide updated information on ASUS hardware and software products. Refer to the ASUS contact information.

### 2. **Optional Documentation**

Your product package may include optional documentation, such as warranty flyers, that may have been added by your dealer. These documents are not part of the standard package.

# System package contents

Check your CT5430 system package for the following items.



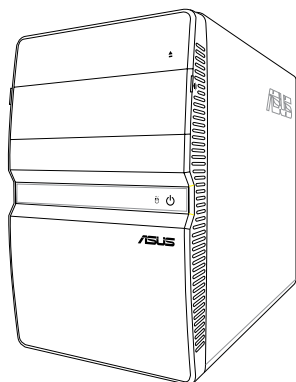
If any of the items is damaged or missing, contact your retailer immediately.

Item description	
1.	ASUS CT5430 Desktop PC with
	• ASUS Desktop x 1
	• Keyboard x 1
	• Mouse x 1
2.	Cable
	• AC power cord x 1
3.	Support CD x 1, and Recovery DVD x 1
4.	Installation Manual x 1
5.	Warranty card x 1



# Chapter 1

This chapter gives a general description of ASUS CT5430. The chapter lists the system features including introduction on the front and rear panel, and internal components.



# System introduction

## 1.1 Welcome!

Thank you for buying an ASUS CT5430!

ASUS CT5430 is an all-in-one Desktop PC with a versatile home entertainment feature.

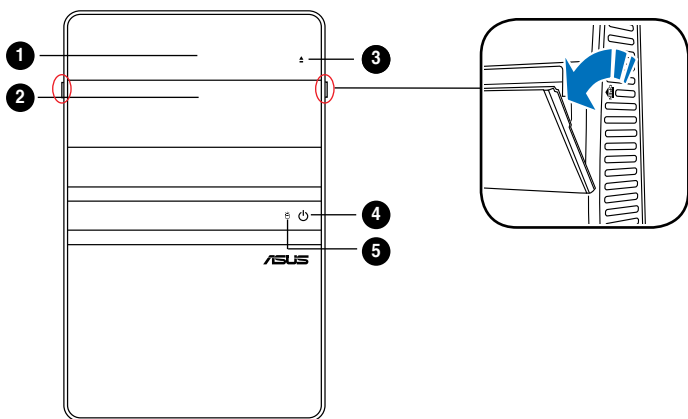
The system comes in a stylish mini-tower casing, and powered by an ASUS motherboard that supports the Intel® Pentium® 4 processor in the 775-land package with 533/800/1066/1333 MHz FSB and up to 2 GB system memory.




With audio functions, extensive connectivity, and 10/100M LAN capability, the CT5430 is designed for the sophisticated.

With these and many more, the CT5430 definitely delivers the cutting edge technology for your computing and multimedia needs!

## 1.2 Front panel (external)

The front panel includes the system and audio control buttons, system LEDs, and LED panel.

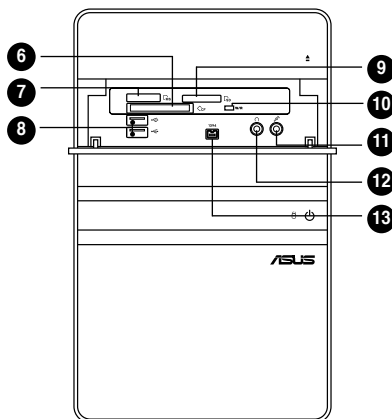








1. **Drive door.** Open this door to access the optical drive.
2. **Front panel I/O cover.** Open the front panel cover to show the input/output ports.
3. **Eject button** . Press this button to eject the optical drive.
4. **Power button** . Press this button to turn the system on/off.
5. **HDD LED** . This LED lights up when data is being read from or written to the hard disk drive.

## 1.3 Front panel (internal)

The optical drive(s), storage card reader slots, and several I/O ports are located inside the front panel doors.

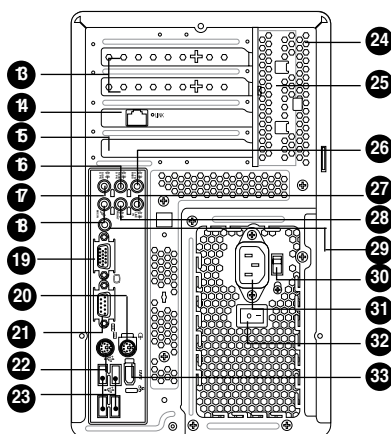
Open the front panel cover by pushing it.












6. **CompactFlash®/Microdrive™ card slot** . This slot is for a CompactFlash®/Microdrive™ storage card.
7. **Memory Stick®/Memory Stick Pro™ card slot**. This slot is for a Memory Stick®/Memory Stick Pro™ storage card.
8. **USB 2.0 ports**  **2.0**. These Universal Serial Bus 2.0 (USB 2.0) ports are available for connecting USB 2.0 devices such as a mouse, printer, scanner, camera, PDA, and others.
9. **Secure Digital™/MultimediaCard slot** . This slot is for a Secure Digital™/MultimediaCard storage card.
10. **W/R LED w/r**. This LED lights up when data is being read from or written to the card reader.
11. **Microphone port** . This Mic (pink) port connects a microphone.
12. **Headphone port** . This port connects a headphone with a stereo mini-plug.
13. **4-pin IEEE 1394a port** . This port provides high-speed connectivity for IEEE 1394a-compliant audio/video devices, storage peripherals, and other PC devices.

## 1.4 Rear panel

The system rear panel includes the power connector and several I/O ports that allow convenient connection of devices.



13. **Expansion slot covers.** Remove these covers when installing expansion cards.
14. **LAN port.** This port allows connection to a Local Area Network (LAN) through a network hub.
15. **Expansion slots.** Use this slot when installing expansion card.
16. **Rear surround speakers.** This port connects to a high-definition six-channel speaker.
17. **Side surround speakers.** This port connects to a high-definition six-channel speaker.
18. **Microphone port** . This Microphone (pink) port connects a microphone. In 4/6-channel mode, the function of this port becomes Low Frequency Enhanced Output/Center.
19. **VGA port** . This port connects a VGA monitor.
20. **PS/2 mouse port** . This green 6-pin connector is for a PS/2 mouse.
21. **COM port** . This port connects a mouse, modem, or other devices that conforms with serial specification.
22. **PS/2 keyboard port** . This purple 6-pin connector is for a PS/2 keyboard.
23. **USB 2.0 ports**  **2.0**. These Universal Serial Bus 2.0 (USB 2.0) ports are available for connecting USB 2.0 devices such as a mouse, printer, scanner, camera, PDA, and others.

- 24. **Chassis vent.** This vent is for the fan that provides ventilation inside the system chassis.
- 25. **Expansion card lock.** This lock secures installed expansion cards. See page 2-13 for details.
- 26. **Center & woofer speakers.** This port connects the center/subwoofer speakers.
- 27. **Line In port** . This Line In (light blue) port connects a tape player or other audio sources. In 6-channel mode, the function of this port becomes Surround output.
- 28. **Line Out port** . This Line Out (lime) port connects a headphone or a speaker. In 4/6-channel mode, the function of this port becomes Front Speaker Out.
- 29. **Coaxial S/PDIF Out port.** This port connects an external audio output device via a coaxial S/PIF cable.
- 30. **Voltage selector.** This switch allows you to adjust the system input voltage according to the voltage supply in your area.
- 31. **Power connector.** This connector is for a power cable and plug.
- 32. **Power switch.** This switch allows you to turn your PC on/off.
- 33. **6-pin IEEE 1394a port** . This port provides high-speed connectivity for IEEE 1394a-compliant audio/video devices, storage peripherals, and other PC devices.



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The information provided is intended as a general guide for reference.  
Specifications are subject to the Desktop PC you purchased.

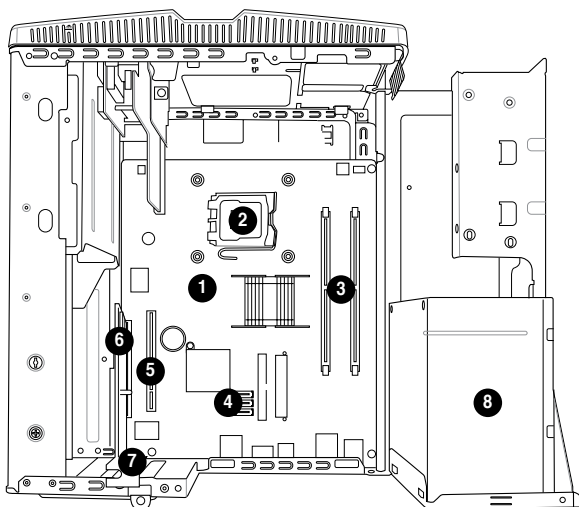
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## 1.5 Internal components

The illustration below is the internal view of the system when you remove the top cover and the power supply unit. The installed components are labeled for your reference. Proceed to Chapter 2 for instructions on installing additional system components.



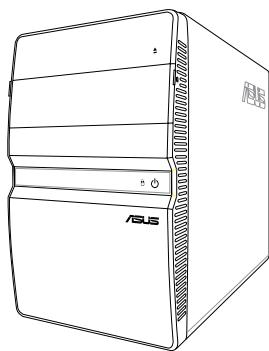
The illustration shows an open chassis lifted at a 90° angle.



1. ASUS motherboard
2. LGA775 socket with PnP cap
3. DIMM sockets
4. Serial ATA connectors
5. PCI Express™ x16 slot for discrete graphics card
6. PCI slot with a LAN card
7. Expansion card slot
8. Power supply unit

# Chapter 2

This chapter provides step-by-step instructions on how to install components in the system.



## Basic installation

## 2.1 Preparation

Before you proceed, ensure that you have all the components you plan to install in the system.

### Basic components to install

1. Central Processing Unit (CPU)
2. DDR2 Dual Inline Memory Module (DIMM)
3. Expansion card(s)
4. Hard disk drive
5. Optical drive

### Tool

Philips (cross) screw driver

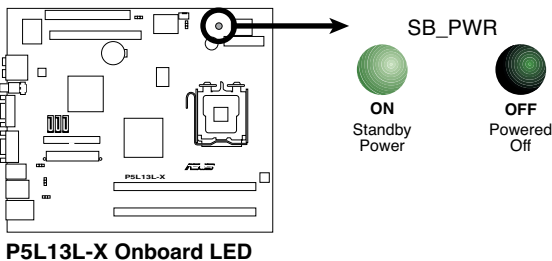
## 2.2 Before you proceed

Take note of the following precautions before you install components into the system.



- Use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity.
- Hold components by the edges to avoid touching the ICs on them.
- Whenever you uninstall any component, place it on a grounded antistatic pad or in the bag that came with the component.

The motherboard comes with an onboard standby power LED. This LED lights up to indicate that the system is ON, in sleep mode or in soft-off mode, and not powered OFF. Unplug the power cable from the power outlet and ensure that the standby power LED is OFF before installing any system component.



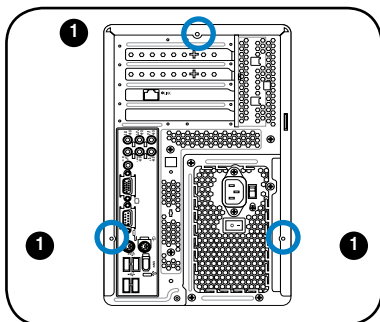
**P5L13L-X Onboard LED**



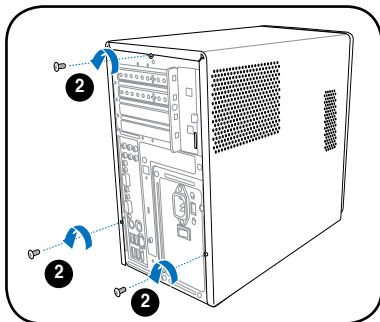
## 2.3 Removing the cover

To remove the cover:

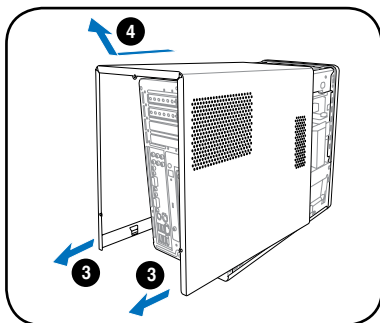
1. On the rear panel, locate the three screws that secure the cover to the chassis.



2. Use a Phillips screw driver to remove the cover screws. Keep the screws for later use.



3. Slightly pull the cover toward the rear panel until the side tabs are disengaged from the chassis.
4. Lift the cover, then set aside.

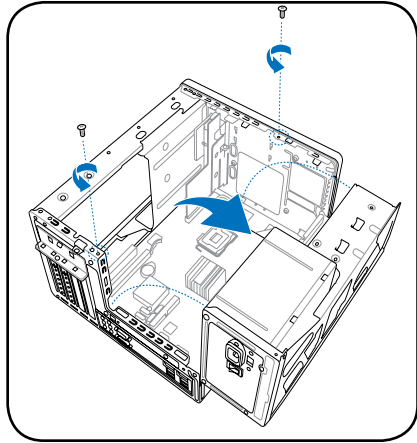


## 2.4 Power supply unit

You need to turn over the power supply unit (PSU) section on the side before you can install a central processing unit (CPU) and other system components.

To turn over the PSU:

1. Lay the system chassis on its side on a flat and stable surface.
2. Locate and remove the two screws that secures the PSU to the chassis.
3. Lift the PSU in the direction of the arrow to a 90° angle.



When removing the PSU, ensure to hold or support it firmly. The unit may accidentally drop and damage other system components.

## 2.5 CPU installation

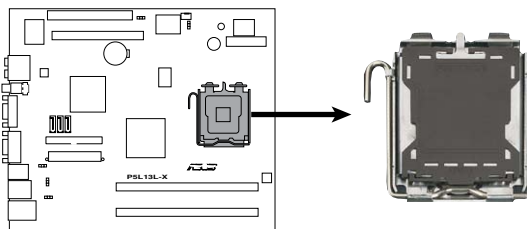


- Your boxed Intel® Pentium® 4 LGA775 processor package should come with installation instructions for the CPU, heatsink, and the retention mechanism. If the instructions in this section do not match the CPU documentation, follow the latter.
- Check your motherboard to ensure that the PnP cap is on the CPU socket and the socket contacts are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket contacts/motherboard components. ASUS will shoulder the cost of repair only if the damage is shipment/transit-related.
- Keep the cap after installing the motherboard. ASUS will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA775 socket.
- The product warranty does not cover damage to the socket contacts resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap.

### 2.5.1 Installing the CPU

To install a CPU:

1. Locate the CPU socket on the motherboard.



**P5L13L-X CPU Socket 775**

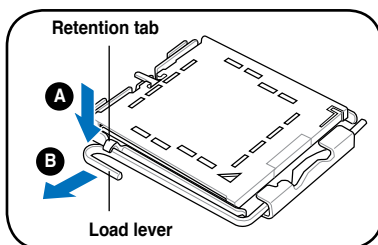


Before installing the CPU, ensure that the socket box is facing towards you and the load lever is on your left.

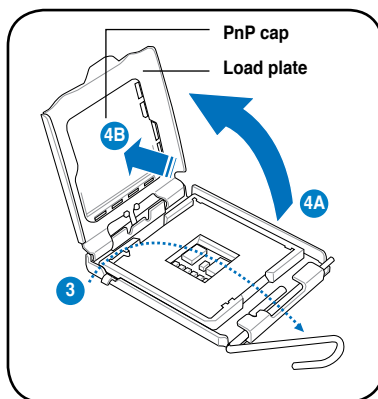
2. Press the load lever with your thumb (A), then move it to the left (B) until it is released from the retention tab.



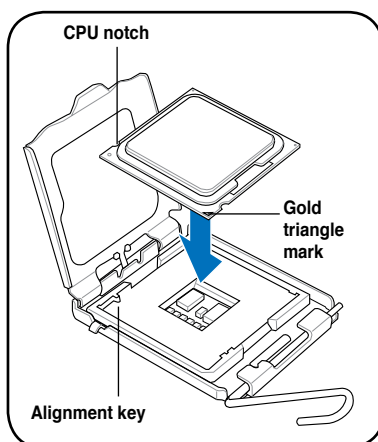
To prevent damage to the socket pins, do not remove the PnP cap unless you are installing a CPU.



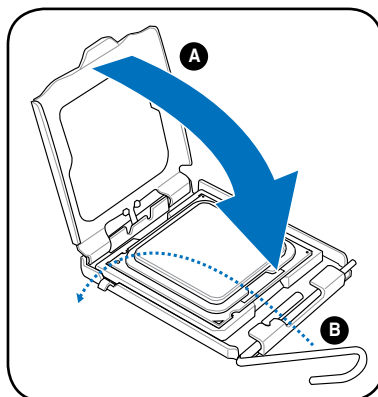
3. Lift the load lever in the direction of the arrow to a 135° angle.
4. Lift the load plate with your thumb and forefinger to a 100° angle (4A), then push the PnP cap from the load plate window to remove (4B).



5. Position the CPU over the socket, making sure that the gold triangle is on the bottom-left corner of the socket then fit the socket alignment key into the CPU notch.



6. Close the load plate (A), then push the load lever (B) until it snaps into the retention tab.



## 2.5.2 Installing CPU fan and heatsink assembly

The Intel® Pentium® 4 LGA775 processor requires a specially designed heatsink and fan assembly to ensure optimum thermal condition and performance.



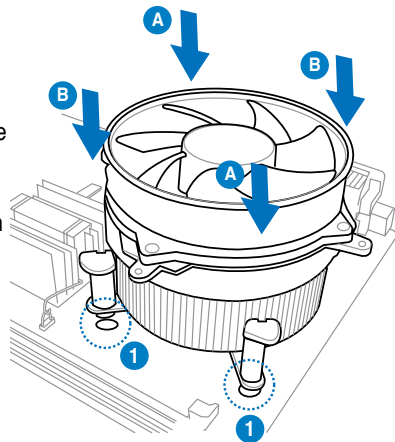
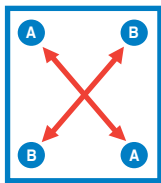
- When you buy a boxed Intel® Pentium® 4 processor, the package includes the CPU fan and heatsink assembly. If you buy a CPU separately, ensure that you use only Intel®-certified multi-directional heatsink and fan.
- Your Intel® Pentium® 4 LGA775 heatsink and fan assembly comes in a push-pin design and requires no tool to install.



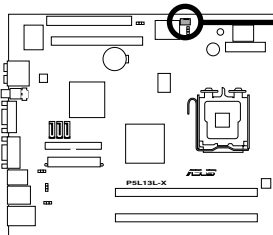
If you purchased a separate CPU heatsink and fan assembly, ensure that the Thermal Interface Material is properly applied to the CPU heatsink or CPU before you install the heatsink and fan assembly.

To install the CPU heatsink and fan:

1. Place the heatsink on top of the installed CPU, making sure that the four fasteners match the holes on the motherboard.
2. Push down two fasteners at a time in a diagonal sequence to secure the heatsink and fan assembly in place.



3. When the fan and heatsink assembly is in place, connect the CPU fan cable to the connector on the motherboard.



**P5L13L-X CPU Fan Connector**

CPU\_FAN

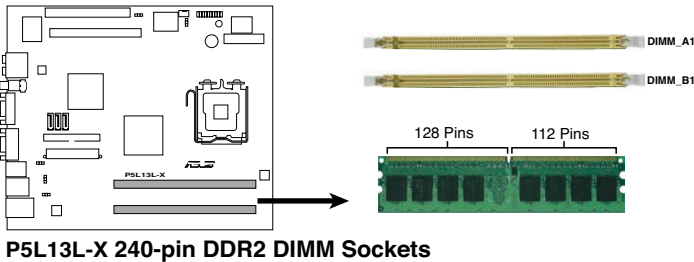


Do not forget to connect the CPU fan connector! Hardware monitoring errors can occur if you fail to plug this connector.

## 2.6 Installing a DIMM

The system motherboard comes with two Double Data Rate 2 (DDR2) Dual Inline Memory Module (DIMM) sockets.

The following figure illustrates the location of the sockets:



### 2.6.1 Memory configurations

You may install up to 2 GB system memory using 256 MB, 512 MB, and 1 GB DDR2 DIMMs.



- Installing DDR2 DIMMs other than the recommended configurations may cause memory sizing error or system boot failure. Use any of the recommended configurations in the table on the next page.
- Install only **identical** (the same type and size) DDR2 DIMMs in DIMM\_A1 and DIMM\_B1.
- Always install DIMMs with the same CAS latency. For optimum compatibility, we recommend that you obtain memory modules from the same vendor.
- Due to chipset resource allocation, the system may detect less than 2 GB system memory when you installed two 1 GB DDR2 memory.
- This motherboard does not support memory modules made up of 128 Mb chips or double-sided x16 memory modules.

### Recommended memory configurations

Mode	Sockets	
	DIMM_A1	DIMM_B1
Single Channel	Populated	
		Populated
Dual-channel	Populated	Populated

DDR2 (533 MHz) Qualified Vendors List

Size	Vendor	Model	Brand	SS/DS	Component	DIMM support	
						A*	B*
512MB	KINGSTON	HYB18T512800AF37	N/A	SS	KVR533D2N4/512	•	•
1024MB	KINGSTON	D6408TPAGGL3U	KINGSTON	DS	KVR533D2N4/1G	•	•
2048MB	KINGSTON	E1108AB-6E-E	ELPIDA	DS	KVR533D2N4/2G	•	•
512MB	Qimonda	HYB18T512800BF37	N/A	SS	HYS64T64000HU-3.7-B	•	
1024MB	Qimonda	HYB18T512800BF37	N/A	DS	HYS64T128020HU-3.7-B	•	
256MB	SAMSUNG	K4T51163QC-ZCD5	SAMSUNG	SS	M378T3354CZ3-CD5	•	•
512MB	SAMSUNG	ZCD5K4T51083QC	SEC	SS	M378T6553CZ3-CD5	•	•
1024MB	SAMSUNG	ZCD5K4T51083QC	SEC	DS	M378T2953CZ3-CD5	•	•
256MB	Hynix	HY5PS121621CFP-C4	Hynix	SS	HYMP532U64CP6-C4		
1024MB	Hynix	HY5PS12821CFP-C4	Hynix	DS	HYMP512U64CP8-C4		
256MB	CORSAIR	32M16CEDG	CORSAIR	SS	VS256MB533D2	•	•
512MB	CORSAIR	MH110052432M8CEC	CORSAIR	DS	VS512MB533D2	•	•
1024MB	CORSAIR	64M8CEDG	CORSAIR	DS	VS1GB533D2	•	•
512MB	ELPIDA	E5108AB-5C-E	ELPIDA	SS	EBE51UD8ABFA-5C	•	
512MB	ELPIDA	E5108AB-5C-E	ELPIDA	SS	EBE51UD8ABFA-5C-E	•	•
1024MB	ELPIDA	E5108AB-5C-E	ELPIDA	DS	EBE11UD8ABFA-5C-E	•	
512MB	KINGMAX	E5108AE-5C-E	ELPIDA	SS	KLBC28F-A8EB4	•	•
1024MB	KINGMAX	E5108AE-5C-E	ELPIDA	DS	KLBD48F-A8EB4	•	
512MB	KINGMAX	KKEA88E4AAK-37	KINGMAX	SS	KLBC28F-A8KE4	•	
1024MB	KINGMAX	5MB22D9DCN	MICRON	DS	KLBD48F-A8ME4	•	•
512MB	Apacer	AM4B5708GQJS5D	N/A	SS	AU512E533C4KBGC	•	•
1024MB	Apacer	AM4B5708GQJS5D	N/A	DS	AU01GE533C4KBGC	•	•
512MB	Super Talent	Heat-Sink Package	N/A	SS	T5UA512C4	•	•
1024MB	Super Talent	Heat-Sink Package	N/A	DS	T5UB1G8C4	•	•
512MB	TwinMOS	K4T51083QB-GCD5	SAMSUNG	SS	8D-22J85-K2T	•	•

DDR2 (667 MHz) Qualified Vendors List

Size	Vendor	Model	Brand	SS/DS	Component	DIMM support	
						A*	B*
512MB	KINGSTON	D6408TEBGL3U	KINGSTON	SS	KVR667D2N5/512	•	•
256MB	KINGSTON	HYB18T256800AF3S	N/A	SS	KVR667D2N5/256	•	•
256MB	KINGSTON	6SBI2D9DCG	MICRON	SS	KVR667D2N5/256	•	•
2048MB	KINGSTON	E1108AB-6E-E	ELPIDA	DS	KVR667D2N5/2G		
256MB	Qimonda	HYB18T512160BF-3S	INFINEON	SS	HYS64T32000HU-3S-B	•	•
512MB	Qimonda	HYB18T512800BF3S	N/A	SS	HYS64T64000HU-3S-B	•	•
1024MB	Qimonda	HYB18T512800BF3S	N/A	DS	HYS64T128020HU-3S-B	•	
256MB	SAMSUNG	K4T51163QC-ZCE6	SAMSUNG	SS	M378T3354CZ0-CE6	•	•
512MB	SAMSUNG	ZCE6K4T51083QC	SEC	SS	M378T6553CZ0-CE6	•	
256MB	SAMSUNG	K4T51163QC-ZCE6	SAMSUNG	SS	M378T3354CZ3-CE6	•	•
512MB	SAMSUNG	K4T51083QC	SEC	SS	M378T6553CZ3-CE6	•	•
1024MB	SAMSUNG	ZCE6K4T51083QC	SEC	DS	M378T2953CZ3-CE6	•	•
512MB	SAMSUNG	K4T51163QE-ZCE6	SAMSUNG	DS	M378T3354EZ3-CE6	•	•
256MB	SAMSUNG	K4T51083QE	SAMSUNG	SS	M378T6553EZ3-CE6	•	•
1024MB	SAMSUNG	K4T51083QE	SAMSUNG	DS	M378T2953EZ3-CE6	•	•

## DDR2 (667 MHz) Qualified Vendors List

Size	Vendor	Model	Brand	SS/DS	Component	DIMM support	
						A*	B*
256MB	Hynix	HY5PS121621CFP-Y5	Hynix	SS	HYMP532U64CP6-Y5	•	•
1024MB	Hynix	HY5PS12821CFP-Y5	Hynix	DS	HYMP512U64CP8-Y5	•	
256MB	CORSAIR	MI1100605	N/A	SS	VS256MB667D2	•	•
512MB	CORSAIR	64M8CFEG	N/A	SS	VS512MB667D2	•	•
1024MB	CORSAIR	64M8CFEG	N/A	DS	VS1GB667D2	•	
256MB	ELPIDA	E2508AB-6E-E	ELPIDA	SS	EBE25UC8ABFA-6E-E	•	•
512MB	ELPIDA	E5108AE-6E-E	ELPIDA	SS	EBE51UD8AEFA-6E-E	•	•
512MB	A-DATA	AD29608A8A-3EG	A-DATA	SS	M2OAD5G3H31661C52	•	•
1024MB	A-DATA	AD29608A8A-3EG	A-DATA	DS	M2OAD5G3I41761C52	•	•
2048MB	A-DATA	NT5TU128M8BJ-3C	N/A	DS	M2ONY5H3J41701C5Z		
512MB	crucial	Heat-Sink Package	N/A	SS	BL6464AA663.8FD	•	•
1024MB	crucial	Heat-Sink Package	N/A	DS	BL12864AA663.16FD	•	•
1024MB	crucial	Heat-Sink Package	N/A	DS	BL12864AL664.16FD	•	•
1024MB	crucial	Heat-Sink Package	N/A	DS	BL12864AA663.16FD2	•	•
512MB	Apacer	AM4B5708GQJ57E0628F	APACER	SS	AU512E667C5KBGC	•	•
1024MB	Apacer	AM4B5708GQJ57E	APACER	DS	AU01GE667C5KBGC		
512MB	Transcend	K4T51083QE	SAMSUNG	SS	TS64MLQ64V6J	•	•
1024MB	Transcend	K4T51083QE	SAMSUNG	DS	TS128MLQ64V6J	•	•
256MB	Kingmax	N2TU51216AG-3C	NANYA	SS	KLCB68F-36KH5	•	•
512MB	Kingmax	KKEA88B4LAUG-29DX	KINGMAX	SS	KLCC28F-A8KB5	•	
1024MB	Kingmax	KKEA88B4LAUG-29DX	KINGMAX	DS	KLCD48F-A8KB5	•	
512MB	Super Talent	Heat-Sink Package	N/A	SS	T6UA512C5	•	•
1024MB	Super Talent	Heat-Sink Package	N/A	DS	T6UB1GC5	•	•
2048MB	NANYA	NT5TU128M8BJ-3C	NANYA	DS	NT2GT64U8HB0JY-3C	•	
512MB	NANYA	NT5TU64M8BE-3C	NANYA	SS	NT512T64U88B0BY-3C	•	
512MB	PSC	A3R12E3GEF637BLC5N	PSC	SS	AL6E8E63B-6E1K	•	•
1024MB	PSC	A3R12E3GEF637BLC5N	PSC	DS	AL7E8E63B-6E1K	•	•
512MB	TwinMOS	E5108AE-GE-E	ELPIDA	SS	8G-25JK5-EBT	•	
512MB	TwinMOS	TMM6208G8M30C	TwinMOS	SS	8D-23JK5M2ETP	•	•



### SS - Single-sided / DS - Double - sided

#### DIMM support:

- **A\*:** Supports one module inserted into any slot as Single-channel memory configuration.
- **B\*:** Supports one pair of modules inserted into either the yellow slots as one pair of Dual-channel memory configuration.



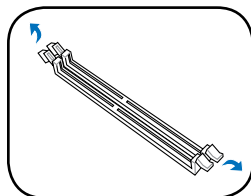
Visit the ASUS website for the latest DDR2-667/553MHz QVL.



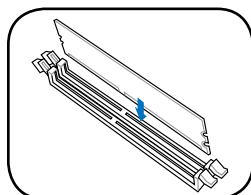
## 2.6.2 DIMM installation

To install a DDR2 DIMM:

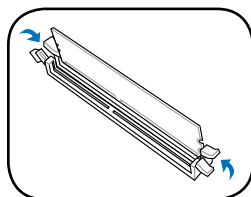
1. Locate the two DIMM sockets on the motherboard.
2. Unlock a socket by pressing the retaining clips outward.



3. Align a DIMM on the socket such that the notch on the DIMM matches the break on the socket.



4. Firmly insert the DIMM into the socket until the retaining clips snap back in place and the DIMM is properly seated.



A DDR2 DIMM is keyed with a notch so that it fits in only one direction. **DO NOT** force a DIMM into a socket to avoid damaging the DIMM!

## 2.7 Installing an expansion card

In the future, you may need to install expansion cards. The motherboard has one PCI and one PCI Express™ x16 slot. The following sub-sections describe the slots and the expansion cards that they support.



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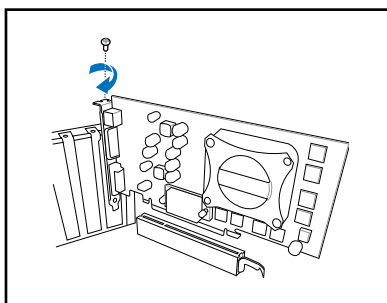
Make sure to unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage the motherboard.

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### 2.7.1 Expansion slots

#### PCI Express™ x16 slot

This motherboard supports PCI Express™ x16 graphic cards that comply with PCI Express™ specifications. The figure shows a graphics card installed on the PCI Express™ x16 slot.



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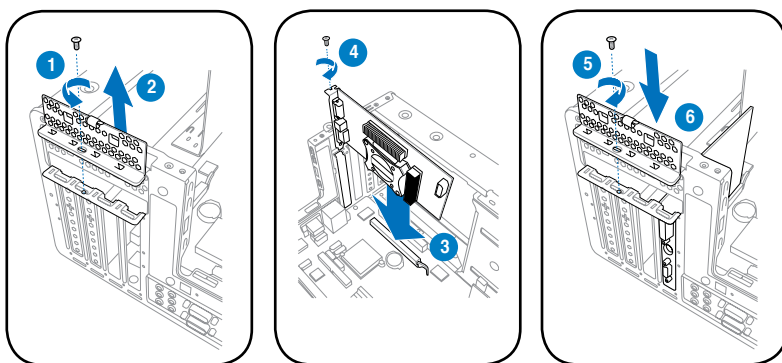
The chassis supports PCI Express x 16 cards with 192 mm x 19 mm or smaller dimensions only.

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## 2.7.2 Expansion card installation

To install an expansion card:

1. Before installing the expansion card, read the documentation that came with it and make the necessary hardware settings for the card.
2. Locate and remove one metal bracket lock screw.
3. Remove the metal bracket lock.
4. Align the card connector with the slot, then press firmly.
5. Secure the card with one screw.
6. Replace the metal bracket lock, then secure it with one screw.




### Standard interrupt assignments

IRQ	Standard Function
0	System Timer
1	Keyboard Controller
2	Programmable Interrupt
4	Communications Port (COM1)
6	Floppy Disk Controller
7*	Printer Port (LPT1)
8	System CMOS/Real Time Clock
9*	ACPI Mode when used
10*	IRQ Holder for PCI Steering
11*	IRQ Holder for PCI Steering
12*	PS/2 Compatible Mouse Port
13	Numeric Data Processor
14*	Primary IDE Channel

\* These IRQs are usually available for ISA or PCI devices.

IRQ assignments for this motherboard

	A	B	C	D	E	F	G	H
PCI slot	shared	shared	shared	shared	—	—	—	—
PCI Express x16 slot	shared	—	—	—	—	—	—	—
Onboard USB controller 1	—	—	—	—	shared	—	—	—
Onboard USB controller 2	—	shared	—	—	—	—	—	—
Onboard USB controller 3	—	—	shared	—	—	—	—	—
Onboard USB controller 4	—	—	—	shared	—	—	—	—
Onboard USB 2.0 controller	—	—	—	—	shared	—	—	—
Onboard IDE port	—	—	shared	—	—	—	—	—
Onboard AC' 97 Audio	shared	—	—	—	—	—	—	—
Onboard LAN	shared	—	—	—	—	—	—	—
Onboard 1394	—	—	—	—	shared	—	—	—



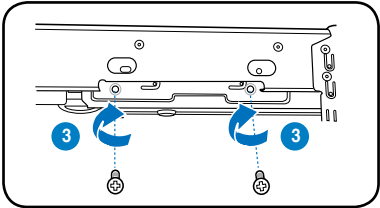
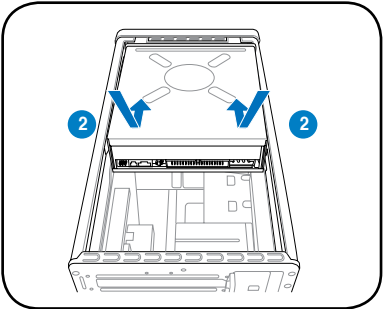
When using a PCI card on shared slots, ensure that the drivers support “Share IRQ” or that the cards do not need IRQ assignments. Otherwise, conflicts will arise between the two PCI groups, making the system unstable and the card inoperable.

2.8 Installing an optical drive

The Desktop PC comes with a 5.25-inch drive bays for an optical drive.

To install an optical drive:

1. Place the chassis upright.
2. Insert the optical drive to the upper 5.25 in drive bay, then carefully push the drive until its screw holes align with the holes on the bay.
3. Secure the optical drive with four screws on both sides of the bay.
4. Connect the IDE and the power plugs to the connectors at the back of the drive.

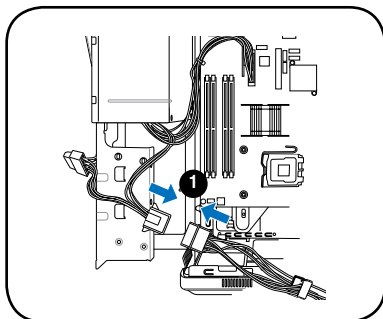


## 2.9 Installing a Serial ATA disk drive

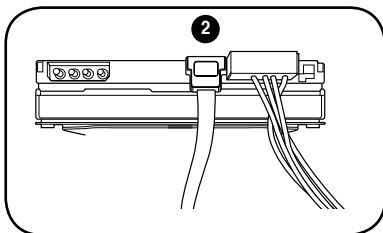
The system supports one Serial ATA hard disk drive.

To install a Serial ATA hard disk drive:

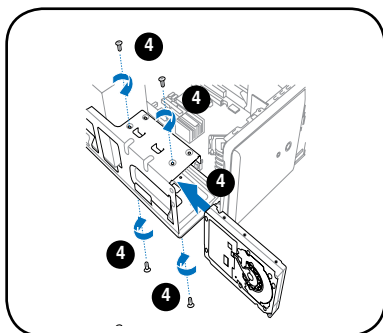
1. Connect the SATA power cable to the plug of the power supply unit.



2. Connect the SATA signal cable and the power plugs to the connectors at the back of the drive.



3. Locate the HDD tray.
4. Insert a hard disk drive (with the HDD PCB facing the top of the chassis) to the tray, then secure it with four screws.



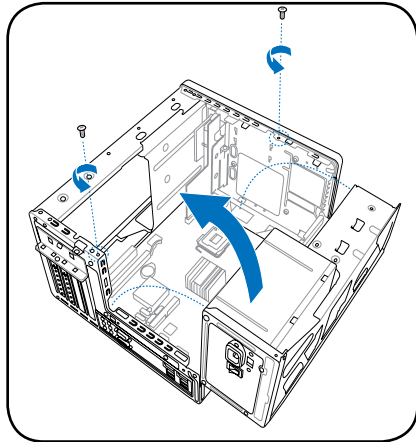
5. Connect the SATA signal cable to the SATA connector on the motherboard, and tighten all the cables with the plastic coils.

## 2.10 Replacing the power supply unit

Replace the power supply unit (PSU) after installing the system components and reconnecting the cables.

To replace the PSU:

1. If necessary, connect the 4-pin 12V power plug to the ATX12V connector on the motherboard.
2. If necessary, connect the 24-pin ATX power plug to the ATXPWR connector on the motherboard.
3. Connect the optical drive power connector.
4. Lift the PSU in the direction of the arrow until it properly fits in place.
5. Secure the PSU with the screws you removed earlier.



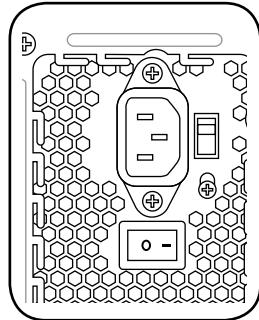
Make sure the PSU cables do not interfere with the CPU and/or chassis fans.

### Voltage selector

The PSU has a 115 V/230 V voltage selector switch located beside the power connector. Use this switch to select the appropriate system input voltage according to the voltage supply in your area.

If the voltage supply in your area is 100-127 V, set the switch to 115 V.

If the voltage supply in your area is 200-240 V, set the switch to 230 V.

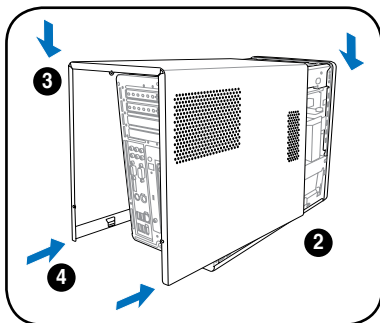


Setting the switch to 115 V in a 230 V environment will seriously damage the system!

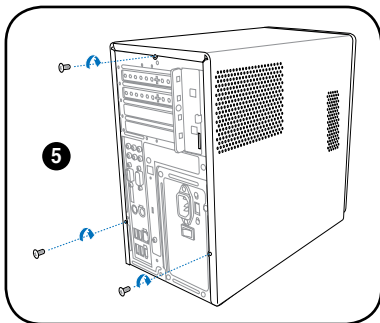
## 2.11 Replacing the cover

To replace the cover:

1. Turn the chassis upright.
2. Position the front edge of the cover at least two inches from the front panel cover. Fit the cover tabs with the chassis rail and the front panel tabs.
3. Lower the rear edge of the cover as shown.
4. Push the cover slightly toward the front panel until it fits in place.



5. Secure the cover with the three screws you removed earlier.

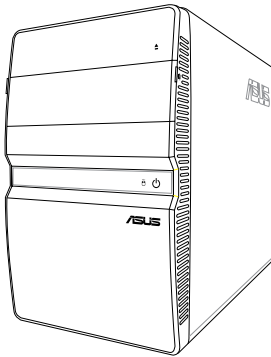






# Appendix

The Appendix includes the information on recovering your system, and troubleshooting.



# Appendix

## A.1 Recovering your system

### Using the recovery DVD

The recovery DVD includes an image of the operating system installed on your system at the factory. The recovery DVD, working with the support DVD, provides a comprehensive recovery solution that quickly restores your system to its original working state, provided that your hard disk drive is in good working order. Before using the recovery DVD, copy your data files (such as Outlook PST files) to a USB device or to a network drive and make note of any customized configuration settings (such as network settings).

1. Turn on your ASUS Desktop PC and the ASUS logo appears. Press **F8** to enter the **Please select boot device** menu.
2. Insert the recovery DVD into the optical drive and select the optical drive ("CDROM:XXX") as the boot device. Press **Enter** and then press any key to continue.
3. The **Windows Boot Manager** window appears. Select **Windows Setup [EMS Enabled]** and press **Enter**. Wait when the **Windows is loading files** message appears.
4. Select where to install a new system. Options are:

#### **Recover system to a partition**

This option will delete only the partition you select from below, allowing you to keep other partitions, and create a new system partition as drive "C." Select a partition and click **NEXT**.

#### **Recover system to entire HD**

This option will delete all partitions from your hard disk drive and create a new system partition as drive "C." Select and click **Yes**.

5. Follow the on-screen instructions to complete the recovery process.



---

You will lose all your data during the system recovery. Make sure that you make a backup of it before recovering the system.

---

6. After the system recovery is completed, you will be asked to insert the support DVD into the optical drive. Click **OK** and the system reboots.
7. After the system reboots, Windows® Vista™ will begin system configurations. Follow the on-screen instructions to complete the process, and then restart the computer.



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This recovery DVD is for ASUS Desktop PC only. DO NOT use it on other computers. Visit the ASUS website [www.asus.com](http://www.asus.com) for any updates.

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## A.2 Troubleshooting

Read the following Q&As for troubleshooting guide. If these do not give you answers, you may contact us directly at the contact information provided in the support DVD.

### ***What can I do if my Desktop PC cannot be powered on?***

Check if the power LED on the front panel lights up. It does not light up if no power is supplied to the system.

- Find out if the power cord is plugged in.
- When you use an extension cord or a voltage regulator, ensure that you have plugged it into the wall socket and switched it on.

### ***What can I do if my Desktop PC cannot enter the operating system?***

- Make sure that you use memory modules that the system supports and that you install them properly on the sockets.
- Check if your peripheral devices are compatible with the system. Some USB storage devices, for example, are with different disk drive structure and enter sleep mode easily.

If the above steps do not solve the problem, contact your retailer or perform system recovery using the supplied recovery DVD.






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You will lose all your data during the system recovery. Make sure that you make a backup of it before recovering the system.

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### ***Why is it that I cannot hear anything from my speakers/headphones?***

Check the volume icon on the Windows® taskbar to see if it is set to mute . If so, double-click this icon to display the volume bar, and then click the mute icon  under the bar to cancel the muted mode .

### ***Why is it that a CD/DVD cannot be read from or written to?***

- Make sure that you use a disc compatible with the optical drive.
- Check if you insert the disc properly or if there is any scratch on the disc.
- Find out if the disc is with write protection.

