Cubi series

Personal Computer

MS-B096/ B097 System

G52-B0961X1

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Copyright Notice

The material in this document is the intellectual property of MICRO-STAR INTERNATIONAL. We take every care in the preparation of this document, but no guarantee is given as to the correctness of its contents. Our products are under continual improvement and we reserve the right to make changes without notice.

Trademarks

All trademarks are the properties of their respective owners.

Revision History

Version	Date
V1.0	2015/ 03

Upgrade and Warranty

Please note that certain components preinstalled in the product may be upgradable or replaceable by user's request. To learn more about upgrade limitation, please refer to the specifications in the User's Manual. For any further information about the product users purchased, please contact the local dealer. Do not attempt to upgrade or replace any component of the product if you are not an authorized dealer or service center, since it may cause the warranty void. It is strongly recommended that you contact the authorized dealer or service center for any upgrade or replace service.

Acquisition of Replaceable Parts

Please be noticed that the acquisition of replaceable parts (or compatible ones) of the product users purchased in certain countries or territories may be fulfilled by the manufacturer within 5 years at most since the product has been discontinued, depending on the official regulations declared at the time. Please contact the manufacturer via http://www.msi.com/support/ for the detailed information about the acquisition of spare parts.

Technical Support

If a problem arises with your system and no solution can be obtained from the user's manual, please contact your place of purchase or local distributor. Alternatively, please try the following help resources for further guidance. Visit the MSI website for technical guide, BIOS updates, driver updates and other information via http://www.msi.com/support/

Green Product Features

- Reduced energy consumption during use and stand-by
- Limited use of substances harmful to the environment and health
- Easily dismantled and recycled
- Reduced use of natural resources by encouraging recycling
- Extended product lifetime through easy upgrades
- Reduced solid waste production through take-back policy

Environmental Policy

- The product has been designed to enable proper reuse of parts and recycling and should not be thrown away at its end of life.
- Users should contact the local authorized point of collection for recycling and disposing of their end-of-life products.
- Visit the MSI website and locate a nearby distributor for further recycling information.
- Users may also reach us at gpcontdev@msi.com for information regarding proper Disposal, Take-back, Recycling, and Disassembly of MSI products.

Chemical Substances Information

In compliance with chemical substances regulations, such as the EU REACH Regulation (Regulation EC No. 1907/2006 of the European Parliament and the Council), MSI provides the information of chemical substances in products at:
http://www.msi.com/html/popup/csr/evmtprtt_pcm.html

Battery Information

European Union:
Batteries, battery packs, and accumulators should not be disposed of as unsorted household waste. Please use the public collection system to return, recycle, or treat them in compliance with the local regulations.

Taiwan:
For better environmental protection, waste batteries should be collected separately for recycling or special disposal.

廢電池請回收

California, USA:
The button cell battery may contain perchlorate material and requires special handling when recycled or disposed of in California.
For further information please visit:
http://www.dtsc.ca.gov/hazardouswaste/perchlorate/

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

Safety Instructions

- Read the safety instructions carefully and thoroughly.
- All cautions and warnings on the equipment or user's manual should be noted.

Keep the User's Guide that comes with the package for future reference.

Keep this equipment away from humidity and high temperature.

Lay this equipment on a reliable flat surface before setting it up.

- Make sure that the power voltage is within its safety range and has been adjusted properly to the value of 100~240V before connecting the equipment to the power outlet. Do not disable the protective earth pin from the plug. The equipment must be connected to an earthed mains socket-outlet.
- Always unplug the AC power cord before installing any add-on card or module to the equipment.
- Always disconnect the AC power cord or switch the wall socket off if the equipment would be left unused for a certain time to achieve zero energy consumption.

The ventilator on the enclosure is used for air convection and to prevent the equipment from overheating. Do not cover the ventilator.

Do not leave the equipment in an unconditioned environment with a storage temperature above 60^{O}C (140^{O}F) or below 0^{O}C (32^{O}F), which may damage the equipment.

NOTE: The maximum operating temperature is around 40^{O}C.

Never pour any liquid into the opening that could damage or cause electrical shock.

Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.

- When installing the coaxial cable to the TV Tuner, it is necessary to ensure that the metal shield is reliably connected to protective earthing system of the building.
- Cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

Always keep the strong magnetic or electrical objects away from the equipment.

If any of the following situations arises, get the equipment checked by service personnel:

- The power cord or plug is damaged.
- Liquid has penetrated into the equipment.
- The equipment has been exposed to moisture.
- The equipment does not work well or you can not get it work according to user's manual.
- The equipment has dropped and damaged.
- The equipment has obvious sign of breakage.

1. The optical storage devices are classified as CLASS 1 LASER PRODUCT. Use of controls or adjustments or performance of procedures other than those specified is prohibited.
2. Do not touch the lens inside the drive.

CE Conformity

Hereby, Micro-Star International CO., LTD declares that this device is in compliance with the essential safety requirements and other relevant provisions set out in the European Directive.

FCC-B Radio Frequency Interference Statement

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 the instruction manual, 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 measures listed below:

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

Notice 1

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2

Shielded interface cables and AC power cord, if any, must be used in order to comply with the emission limits.

VOIR LA NOTICE D'INSTALLATION AVANT DE RACCORDER AU RESEAU.

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

1. this device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation.

WEEE Statement

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2002/96/EC, which takes effect on August 13, 2005, products of "electrical and electronic equipment" cannot be discarded as municipal waste anymore and manufacturers of covered electronic equipment will be obligated to take back such products at the end of their useful life.

RoHS Statement

Japan JIS C 0950 Material Declaration
A Japanese regulatory requirement, defined by specification JIS C 0950, mandates that manufacturers provide material declarations for certain categories of electronic products offered for sale after July 1, 2006.
http://www.msi.com/html/popup/csr/cemm_jp.html
http://tw.msi.com/html/popup/csr_tw/cemm_jp.html

India RoHS
This product complies with the “India E-waste (Management and Handling) Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Turkey EEE regulation
Conforms to the EEE Regulations of the Republic Of Turkey

Ukraine restriction of hazardous substances
The equipment complies with requirements of the Technical Regulation, approved by the Resolution of Cabinet of Ministry of Ukraine as of December 3, 2008 № 1057, in terms of restrictions for the use of certain dangerous substances in electrical and electronic equipment.

Vietnam RoHS
As from December 1, 2012, all products manufactured by MSI comply with Circular 30/2011/TT-BCT temporarily regulating the permitted limits for a number of hazardous substances in electronic and electric products.

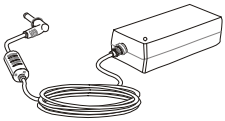
1

Overview

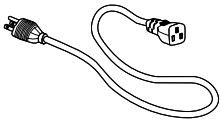
Congratulations for purchasing the Cubi series Personal Computer System. This system is your best PC choice. With the fantastic appearance, it can easily be set anywhere. The feature packed platform also gives you an exciting PC experience.

Packing Contents

Cubi series

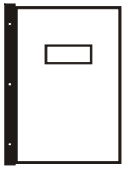


AC/DC Adapter

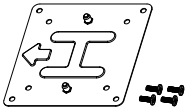


AC Power Cord

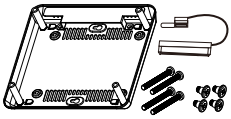
Driver/ Utility Disk



User Manual &
Quick Guide



VESA Mount Kit
(optional)

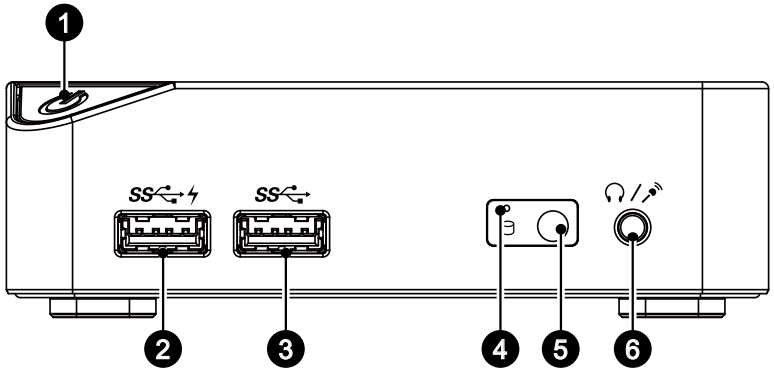


Second Bottom Cover
Kit (optional)

* Please contact us immediately if any of the items is damaged or missing.
* The illustrations are for reference only and your packing contents may slightly vary depending on the model you purchased.

System Overview

➤ Front View



1 Power Button

Press the power button to turn the system on and off.

2 USB 3.0 Port (with MSI SuperCharger Technology) (Optional)

With MSI SuperCharger Technology, not only does it function as normal USB 3.0 port, but it also enables users to charge USB devices even when the system is turned off.

3 USB 3.0 Port

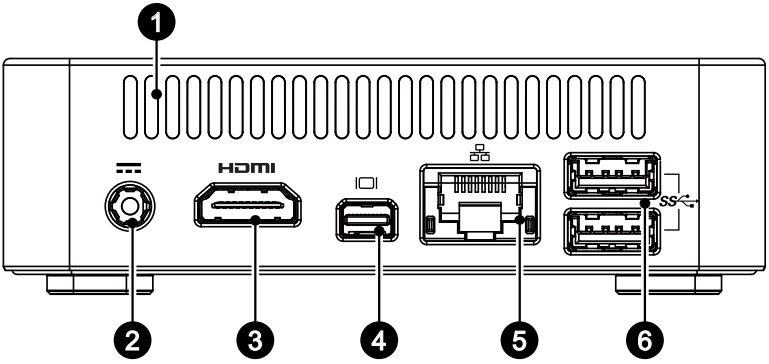
The USB (Universal Serial Bus) port is for attaching USB devices such as keyboard, mouse, or other USB-compatible devices. It supports up to 5Gbit/s (SuperSpeed) data transfer rate. The USB 3.0 port is backward-compatible with USB 2.0 devices.

4 Hard Disk Drive LED

This indicator shows the activity status of the HDD. It flashes when the system is accessing data on the HDD and remains off when no disk activity is detected.

5	IR Receiver (Optional) This infrared receiver is provided for remote control.
6	Headphone / Microphone Jack This connector is provided for headphones, speakers, or microphones.

➤ Rear View



1 Ventilator

The ventilator on the enclosure is used for air convection and to prevent the equipment from overheating. Do not cover the ventilator.

2 Power Jack

The AC/DC adapter converts AC power to DC power for this jack. Power supplied through this jack supplies power to the PC. To prevent damage to the PC, always use the supplied power adapter.

3 HDMI-Out Port

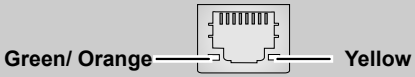
The High-Definition Multimedia Interface (HDMI) is an all-digital audio/ video interface capable of transmitting uncompressed streams. HDMI supports all TV format, including standard, enhanced, or high-definition video, plus multi-channel digital audio on a single cable.

4 Mini-DisplayPort

The Mini-DisplayPort is a miniaturized version of the DisplayPort, with a suitable adapter, the Mini-DisplayPort may be used to drive displays with a VGA, DVI or HDMI interface.

5 LAN Jack

The standard RJ-45 LAN jack is provided for connection to the Local Area Network (LAN). You can connect a network cable to it.

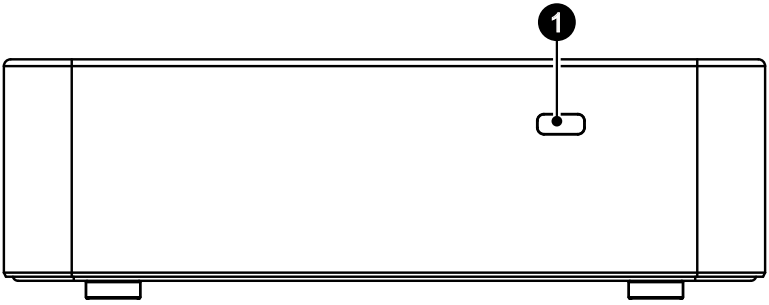


LED Color	LED State	Condition
Yellow	Off	LAN link is not established.
	On (steady state)	LAN link is established.
	On (blinking)	The computer is communicating with another computer on the LAN.
Green	Off	10 Mbit/sec data rate is selected.
	On	100 Mbit/sec data rate is selected.
Orange	On	1000 Mbit/sec data rate is selected.

6 USB 3.0 Port

The USB (Universal Serial Bus) port is for attaching USB devices such as keyboard, mouse, or other USB-compatible devices. It supports up to 5Gbit/s (SuperSpeed) data transfer rate. The USB 3.0 port is backward-compatible with USB 2.0 devices.

➤ Left View



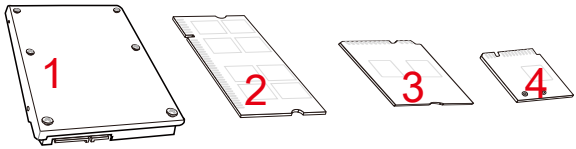
1 Kensington Lock Port

This PC provides a Kensington lock port, which allows users to secure the PC in place with a key or some mechanical PIN device and attached through a rubberised metal cable. The end of the cable has a small loop which allows the whole cable to be looped around a permanent object, such as a heavy table or other similar equipment, thus securing the PC in place.

Component Replacement & Upgrade

Please note that certain components preinstalled in the product may be upgradable or replaceable by user's request depending on the models users purchased.

For any further information on the product users purchased, please contact the local dealer. Do not attempt to upgrade or replace any component of the product if you are not an authorized dealer or service center, since it may cause the warranty void. It is strongly recommended that you contact the authorized dealer or service center for any upgrade or replace service.



1. 2.5" HDD (optional)
2. DDR3L Memory
3. Mini-PCIe SSD (optional)
4. M.2 2230 Bluetooth/ WiFi combo card (optional)

2

Getting Started

Safety & Comfort Tips

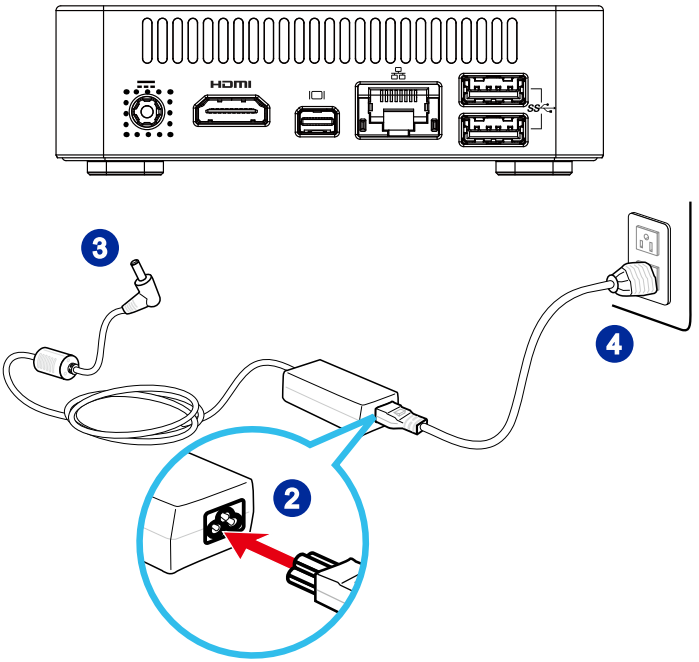
The Personal Computer System is a portable platform that allows you to work anywhere. However, choosing a good workspace is important if you have to work with your PC for a long period of time.

1. Your work area should have enough illumination.
2. Choose the proper desk and chair and adjust their height to fit your posture when operating.
3. When sitting on the chair, sit straight and keep a good posture. Adjust the chair's back (if available) to support your back comfortably.
4. Place you feet flat and naturally on the floor, so that your knees and elbows have the proper position (about 90-degree) when operating.
5. Put your hands on the desk naturally to support your wrists.
6. Avoid using your PC in a place where discomfort may occur (such as on the bed).
7. The Personal Computer System is an electrical device. Please treat it with great care to avoid personal injury.

Hardware Setup

➤ Connecting the AC Power

1. Unpack the package to find the AC/DC adapter and AC power cord.
2. Connect the adapter and the power cord.
3. Connect the Power Jack.
4. Plug the power cord to the electrical outlet.



➤ Disconnecting the AC Power

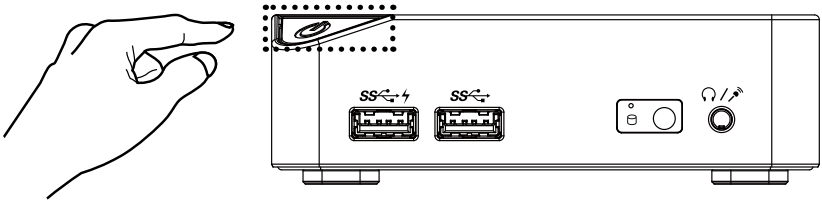
5. Unplug the AC power cord from the electrical outlet first.
6. Unplug the AC power cord from the Personal Computer System.

Important

When unplugging the AC power cord, always hold the connector part of the cord. Never pull the cord directly.

➤ Powering on the System

Press the power button to power on the system.



3

System Operations

This chapter provides you with essential information on system operations.

Important

All information is subject to change without prior notice.

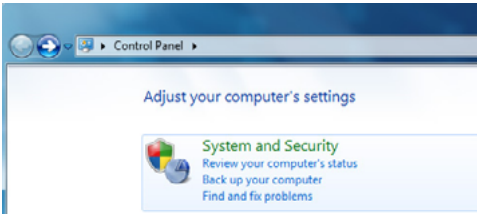
Power Management

Power management of personal computers (PCs) and monitors has the potential to save significant amounts of electricity as well as deliver environmental benefits.

To be energy efficient, turn off your display or set your PC to sleep mode after a period of user inactivity.

➢ Power Management in Windows 7

- [Power Options] in Windows OS allow you to control the power management features of your display, hard drive, and battery. Go to [Start] > [Control Panel] > [System and Security].



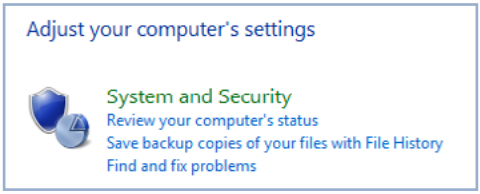
Then click on the [Power Options] link.

Select a power plan that suits your personal needs. You may also fine-tune the settings by clicking [Change plan settings].

- The Shut Down Computer menu presents the options of Sleep (S3/S4) & Shut Down (S5) for rapid and easy management of your system power.

➢ Power Management in Windows 8.x

- [Power Options] in Windows OS allow you to control the power management features of your display, hard drive, and battery. Go to [Start] > [Control Panel] > [System and Security].



Then click on the [Power Options] link.

Select a power plan that suits your personal needs. You may also fine-tune the settings by clicking [Change plan settings].

- The Shut Down Computer menu presents the options of Sleep (S3/S4) & Shut Down (S5) for rapid and easy management of your system power.

➤ Power Management through ENERGY STAR qualified monitors (Optional)

The power management feature allows the computer to initiate a low-power or “Sleep” mode after a period of user inactivity. When used with an external ENERGY STAR qualified monitor, this feature also supports similar power management features of the monitor. To take advantage of these potential energy savings, the power management feature has been preset to behave in the following ways when the system is operating on AC power:

- Turn off the display after 15 minutes
- Initiate Sleep after 30 minutes

➤ Waking the System Up

The computer shall be able to wake up from power saving mode in response to a command from any of the following:

- the power button,
- the network (Wake On LAN),
- the mouse,
- the keyboard.

Energy Saving Tips:

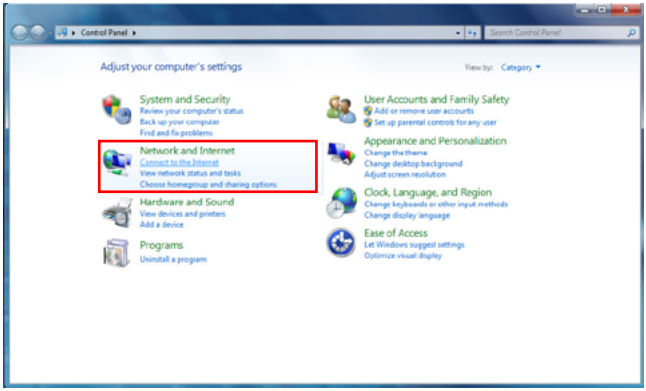
- Turn off the monitor by pressing the LCD power button after a period of user inactivity.
- Tune the settings in Power Options under Windows OS to optimize your PC’s power management.
- Install power saving software to manage your PC’s energy consumption.
- Always disconnect the AC power cord or switch the wall socket off if your PC would be left unused for a certain time to achieve zero energy consumption.

Network Connection (Windows 7)

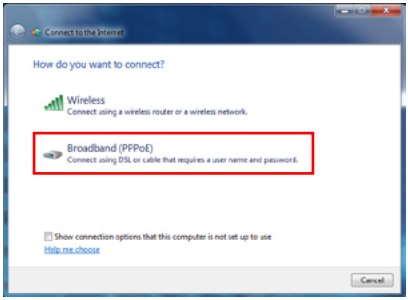
➤ Wired LAN

1. Go to [Start] > [Control Panel].

2. Select [Connect to the Internet] under [Network and Internet].



3. Select [Broadband (PPPoE)] to connect using DSL or cable that requires a user name and password.

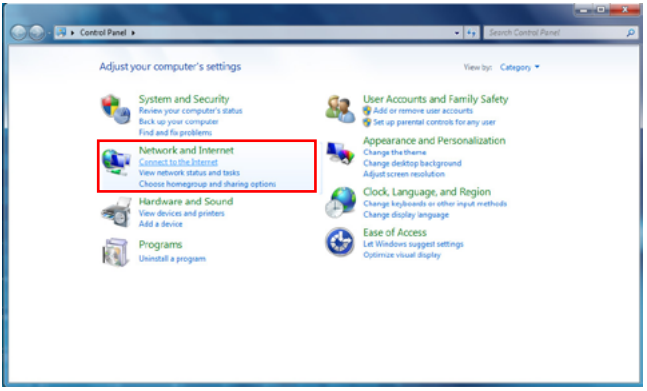


4. Type the information from your Internet Service Provider (ISP) and click [Connect] to establish your LAN connection.

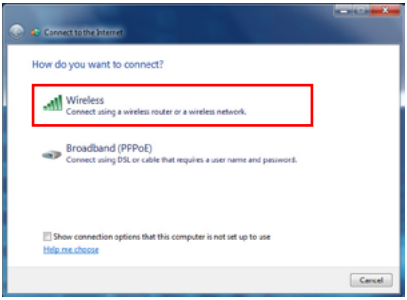
➤ Wireless LAN

1. Go to [Start] > [Control Panel].

2. Select [Connect to the Internet] under [Network and Internet].

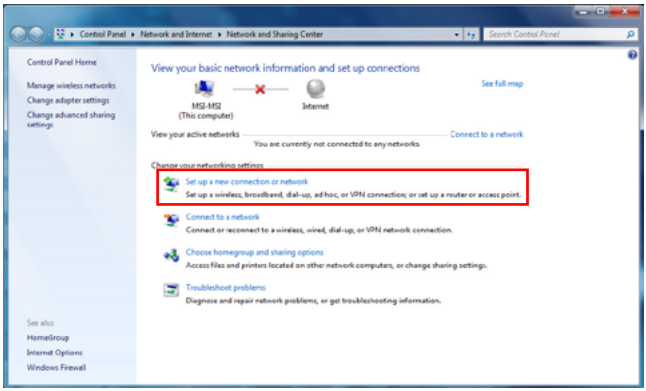


3. Select [Wireless] to connect using a wireless router or a wireless network.

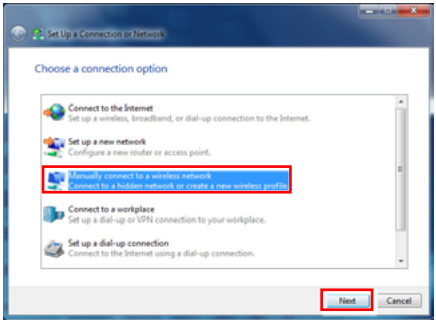


4. A list of available WLAN connections pops up. Choose a connection from the list or click [Open Network and Sharing Center] to establish a new connection.

5. To establish a new WLAN connection, select [Set up a new connection or network] in [Network and Sharing Center].



6. Followingly, choose [Manually connect to a wireless network] and click [Next] to continue.



7. Enter information for the wireless network you intend to add and click [Next] to proceed.

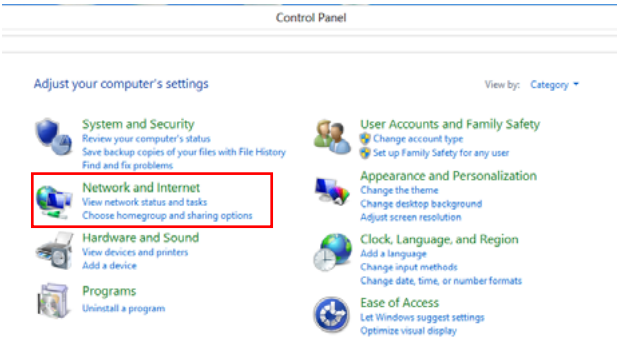
8. A new WLAN connection has been made. Click [Close] to exit or select [Change connection settings] to modify the WLAN settings.

Network Connection (Windows 8.x)

➤ Wired LAN

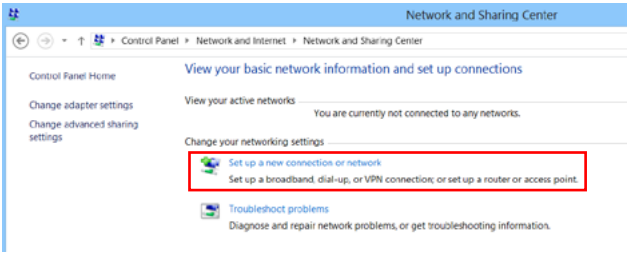
1. Go to [Start] > [Control Panel].

2. Select [View network status and tasks] under [Network and Internet].



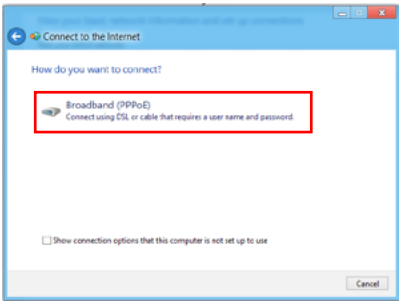
3. To establish a new connection, select [Network and Sharing Center].

4. Select [Set up a new connection or network].

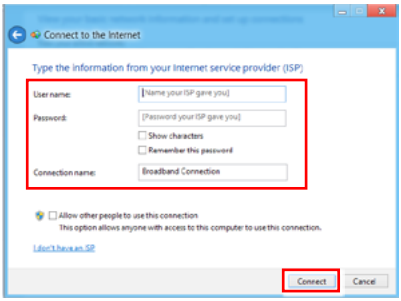


5. Choose [Connect to the Internet].

6. Select [Broadband (PPPoE)] to connect using DSL or cable that requires a user name and password.



7. Type the information from your Internet Service Provider (ISP) and click [Connect] to establish your LAN connection.



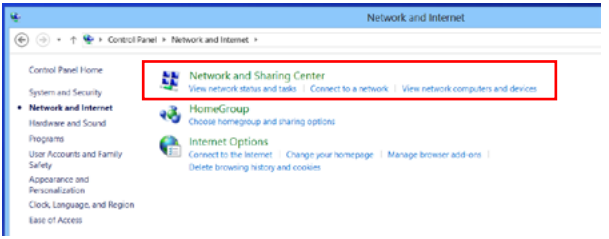
➤ Wireless LAN

1. Select [Settings]

on Desktop, locate a wireless icon with available network.

2. A list of available WLAN connections pops up. Choose a connection from the list.

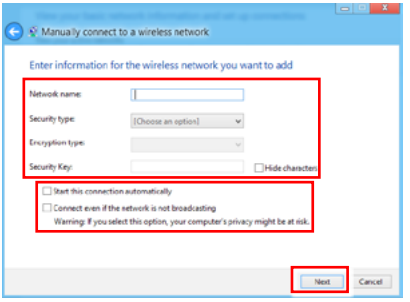
3. To establish a new connection, select [Network and Sharing Center] under [Network and Internet] in [Control Panel].



4. Select [Set up a new connection or network].

5. Followingly, choose [Manually connect to a wireless network] and click [Next] to continue.

6. Enter information for the wireless network you intend to add and click [Next] to proceed.



7. A new WLAN connection has been made. Click [Close] to exit or select [Change connection settings] to modify the WLAN settings.

System Recovery (Windows 7)

Important

The Recovery Tool is only available on systems bundled with Windows OS and MSI utilities by default.

The purposes for using the Recovery Tool may include:

- Restore the system back to the initial status of original manufacturer's default settings.
- When some errors have occurred to the operating system in use.
- When the operating system is affected by virus and is not able to work normally.
- When you want to install the OS with other built-in languages.

Before using the Recovery Tool, please back up the important data saved on your system drive to other storage devices.

If the following solution fails to recover your system, please contact the authorized local distributor or service center for further assistance.

➢ Recovering the System with the F3 Hotkey

If the system encounters non-recoverable problems, it is always recommended that you try the F3 hotkey to recover your system with the recovery partition of the hard disk drive first.

Follow the instructions below to continue:

1. Restart the system.
2. Press the F3 hotkey on the keyboard when the following image appears.

3. Enter the Recovery Tool. This tool contains three features: Backup System, Restore System and Recover to factory default.

➤ System Backup

It is highly recommended that users back up the system as the solution in the event of a catastrophic disk failure or other accidents.

Follow the instructions below to continue:

1. Select [Backup System] to enter. Alternatively, select [X] or press [Esc] on the keyboard to exit.

2. Select [BACKUP] to start the system backup immediately.

▣ The Initial Backup

The initial backup may take a while. Please let it complete without interruption.

▣ Subsequent Backups

Subsequent backups will replace the previous backup files.

3. The system backup is in progress. Please note that it may take a while. Do not switch off the power, or it may cause unknown damage to the system.

4. Alternatively, select [CANCEL] to stop the system backup immediately. Please do not switch off the power while the system backup cancellation is in progress.

5. The following message indicates a successful system backup. Press [OK] to finish.

➤ System Restore

This tool helps to return the system to a previous state with the backup files that users created and saved in the hard disk drive beforehand. If no backup files are available, the system will be restored to the default setup.

Follow the instructions below to continue:

1. Select [Restore System] to enter. Alternatively, select [X] or press [Esc] on the keyboard to exit.

2. Select [OK] or [NEXT] so that the system can recover to the previous backup or default setup. Alternatively, select [CANCEL] to stop the system restore immediately.

▣ **With backup files: restoring the system to the previous backup**

▣ **Without backup files: restoring the system to the default setup**

3. The system restore is in progress. Please note that it may take a while. Do not switch off the power, or it may cause unknown damage to the system.

4. The following message indicates a successful system restore. Press [OK] to finish. Restart the system and access the Windows operating system as usual. If the restore process fails or is interrupted, please start the whole procedure all over again.

➤ System Recovery

This tool helps to recover the system back to factory default settings. All data on the HDD will be erased while all settings will be restored to factory default.

Follow the instructions below to continue:

1. Select [Recover to factory default] to enter. Alternatively, select [X] or press [Esc] on the keyboard to exit.

2. The system will be recovered to factory settings. All data will be gone. Make sure all important data have been backed up. Select [NEXT] to continue. Alternatively, select [CANCEL] to stop.

3. Please select [OK] so that the system can recover its default setup.

4. The system recovery is in progress. Please note that it may take a while. Do not switch off the power, or it may cause unknown damage to the system.

5. The following message indicates a successful system recovery. Press [OK] to finish. Restart the system and access the Windows operating system as usual. If the recovery process fails or is interrupted, please start the whole procedure all over again.

System Recovery (Windows 8.x)

Important

The System Recovery Function is only available on systems bundled with Windows OS and MSI utilities by default.

The purposes for using the System Recovery Function may include:

- Restore the system back to the initial status of original manufacturer's default settings.
- When some errors have occurred to the operating system in use.
- When the operating system is affected by virus and is not able to work normally.
- When you want to install the OS with other built-in languages.

Before using the System Recovery Function, please backup the important data saved on your system drive to other storage devices.

If the following solution fails to recover your system, please contact the authorized local distributor or service center for further assistance.

➤ Recovery from the Operating System

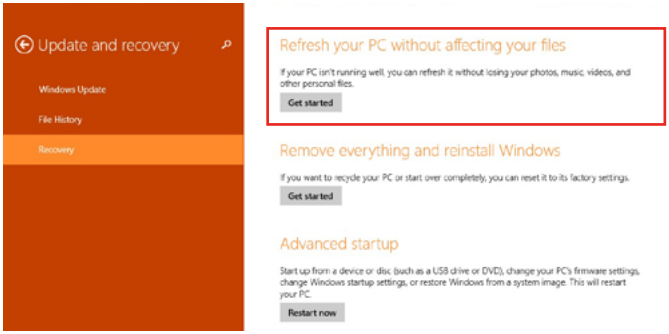
▣ Refresh PC

The Refresh PC utility checks whether the system files, Windows registry, and other important system components are working fine or not; on finding issues with Windows files, it will attempt to repair your PC. If your PC isn't running well, you can refresh it without losing your personal files.

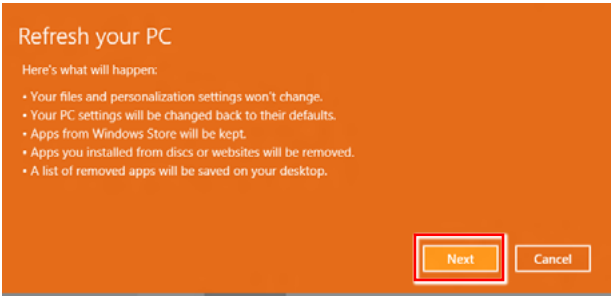
1. Click [Settings]

on desktop, then select [Change PC settings] > [Update and recovery].

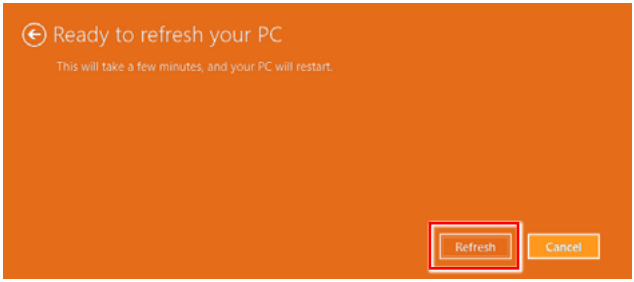
2. Click [Recovery] > [Refresh your PC without affecting your files], and select [Get started].



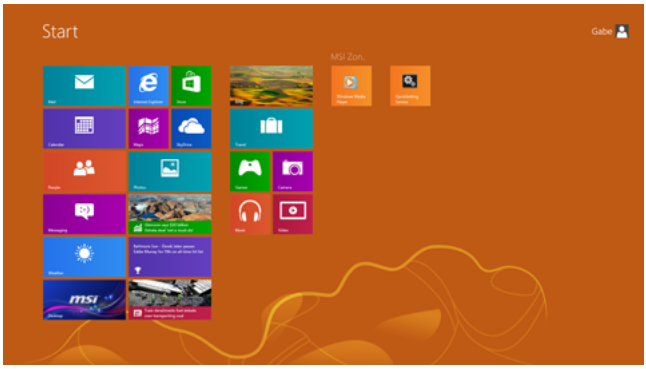
3. It will show the changes which will be made during the process, click [Next] to continue.



4. A message indicates that your PC is ready to be refreshed, click [Refresh] to start. This might take a while.



5. After the refresh process ends, you will be back to Windows Start Screen where you can find all default Windows utilities and widgets.



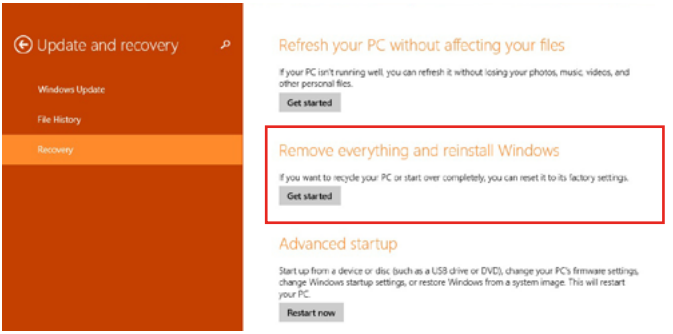
▣ Reset PC

The Reset utility will bring the system back to original factory settings.

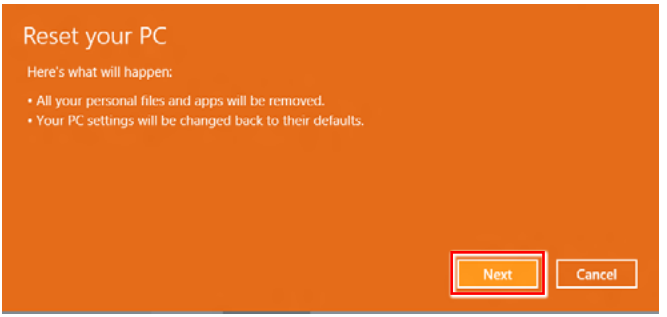
1. Click [Settings]

on desktop, then select [Change PC settings] > [Update and recovery].

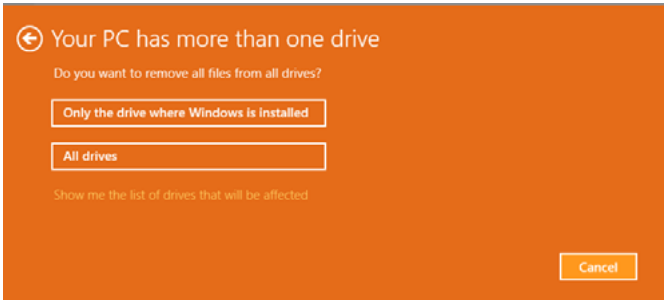
2. Click [Recovery] > [Remove everything and reinstall Windows], and select [Get started].



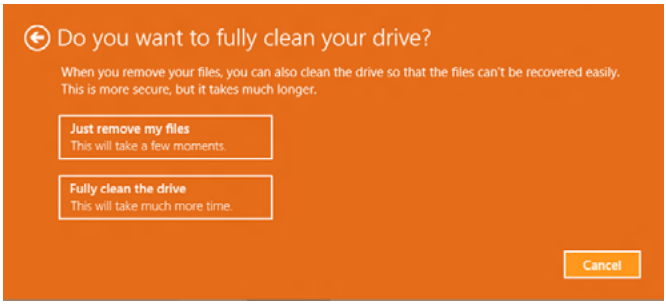
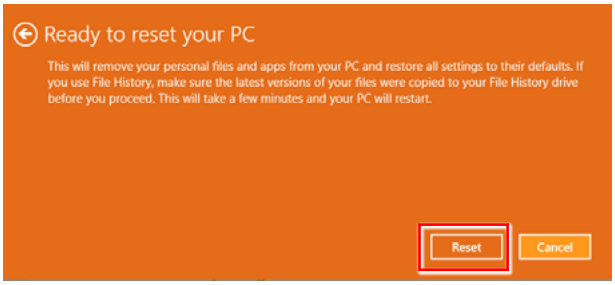
3. It will show the changes to be made during the process, click [Next] to continue.



4. You will be prompted to choose which drive you want to clean for a hard disk with multiple partitions.



5. Now, select either to remove files or to fully clean drives according to your needs.



6. It is now ready to reset your PC, click [Reset] and follow the on-screen instructions to restart your PC.