

# **Cubi Series**

**Personal Computer** 

Cubi NUC AI+ 2MG (Cubi B206)

User Guide

## **Contents**

Getting Started	3
Package Contents	
Safety & Comfort Tips	
System Dimension	
System Overview	5
Hardware Setup	9
Placing the System	12
Mainboard Components	
Windows 11 System Operations	19
Power Management	19
Network Connections	23
System Recovery	31
F3 Hotkey Recovery (Optional)	33
Safety Instructions	34
Regulatory Notices	36

Revision V1.1, 2025/03

## **Getting Started**

This chapter provides you with the information on hardware setup procedures. While connecting devices, be careful in holding the devices and use a grounded wrist strap to avoid static electricity.

## **Package Contents**

Personal Computer	Cubi B206
Documentation	Quick Start Guide (Optional)
	User Guide (Optional)
	Warranty Book (Optional)
Accessories	Power Cord
	External Power Supply
	Power Button Switch Cable (Optional)
	VESA Plate (Optional)
	VESA Mount Screws (Optional)



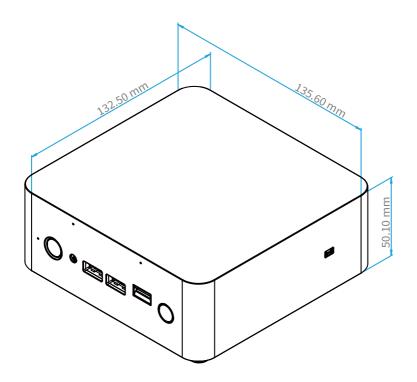
## !\ Important

- Contact your place of purchase or local distributor if any of the items is damaged or missing.
- Package contents may vary by country and model.
- The included power cord is exclusively for this personal computer and should not be used with other products.

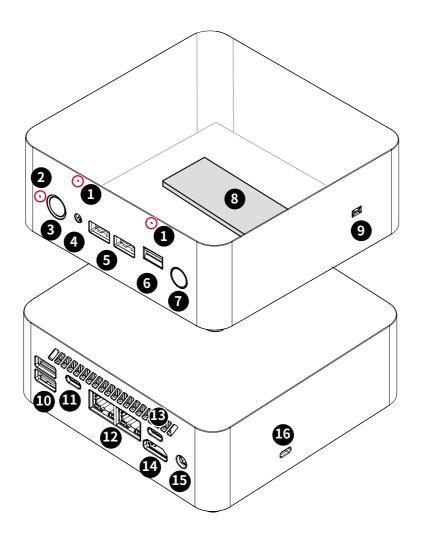
## Safety & Comfort Tips

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

## **System Dimension**



## **System Overview**



Ω	Mic Hole
	This opening allows the microphone to capture sound for recording or communication purposes. Ensure it is unobstructed for optimal performance.
2	Power LED
	The power LED glows when the system is turned on and goes off when the system is shut down. In terms of power saving, the LED blinks in Modern Standby (S0 Low Power Idle) or S3 (Suspend to RAM) mode and goes off in S4 (Suspend to Disk) mode.
3	Power Button & Fingerprint Sensor
9	Press the power button to turn the system on and off.
	A fingerprint sensor is used to unlock your device and verify your identity.
	Combo Audio Jack
	This connector is provided for headphones or speakers or microphones.
5	USB 10Gbps Type A Port
	This connector is provided for USB peripheral devices.
6	MicroSD Card Reader
	For MicroSD cards.
0	Copilot Button
	Press this button to launch Copilot application. The key will launch Windows Search if Copilot is not installed.
	Speaker
8	The built-in speaker that delivers high-quality sound.
9	Power Button Switch Cable Connector (optional)
	With a power button switch cable, you can power on/ off the device easier. Remove the cover from the connector and connect the power button switch cable to this connector.
•	USB 2.0 Port
•	This connector is provided for USB peripheral devices. (Speed up to 480 Mbps)
	1mportant
	Use high-speed devices for USB 5Gbps ports and above, and connect low-speed devices like mice or keyboards to USB 2.0 ports.



#### Thunderbolt™ 4 Port (USB Type-C®)

- Supports up to 40Gbps transfer rate with Thunderbolt<sup>™</sup> devices.
- Supports up to 20Gbps transfer rate with USB4<sup>™</sup> devices.
- Supports up to 10Gbps transfer rate with USB 3.2 devices.
- Supports up to 5V/3A,15W power charging.
- Each port can daisy-chain up to three Thunderbolt<sup>™</sup> 4 devices or five Thunderbolt<sup>™</sup> 3 devices.
- Supports up to 8K display.



#### 2.5 Gbps 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	Status	Description
	Link/ Activity LED	Off	No link
		Yellow	Linked
LINK/ACT SPEED LED		Blinking	Data activity
	Speed LED	Off	10 Mbps
		Green	100/1000 Mbps
		Orange	2.5 Gbps



#### Thunderbolt<sup>™</sup> 4 Port (USB Type-C®)

- Supports up to 40Gbps transfer rate with Thunderbolt<sup>™</sup> devices.
- Supports up to 20Gbps transfer rate with USB4<sup>™</sup> devices.
- Supports up to 10Gbps transfer rate with USB 3.2 devices.
- Supports up to 5V/3A,15W power charging.
- Supports USB-PD Sink up to 100W DC (20V/5A).
- Each port can daisy-chain up to three Thunderbolt<sup>™</sup> 4 devices or five Thunderbolt<sup>™</sup> 3 devices
- Supports up to 8K display.



## 

- Supports 4K@60Hz as specified in HDMI™ 2.1.
- Supports power on/off via MSI Power Link.



#### **Important**

Graphics specifications may vary depending on the installed CPU.



#### **Power Jack**

Power supplied through this jack supplies power to your system.



### **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 rubberized 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.

## **Hardware Setup**

## Connect your peripheral devices to suitable ports

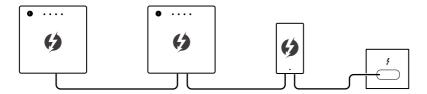


## / Important

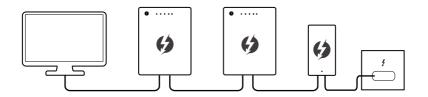
- For detailed instructions on how to connect, please refer to the manuals of your peripheral devices.
- Reference image only. Appearance will vary.

#### Connecting Thunderbolt Devices via Daisy-chain (Optional)

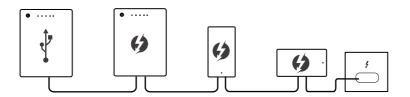
Daisy-chain is a method of connecting multiple devices to a PC with only one output terminal. Daisy-chain allows you to connect multiple Thunderbolt devices to a single Thunderbolt port on the IO panel.



You can also daisy-chain monitors on the IO panel. Please note that monitors should be the last devices on the chain.



If you want to connect USB devices, please place them at the end of the chain.

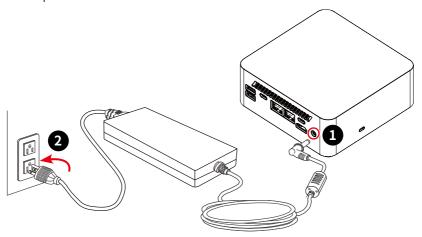


## Connect the power cord to the system and electrical outlet

• External Power Supply: 120W, 19.5V

• Input: 100~240Vac, 50/60Hz

• Output: 19.5V === 6.15A

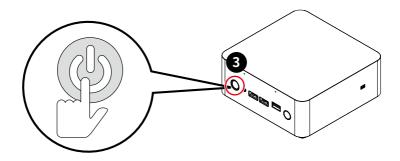




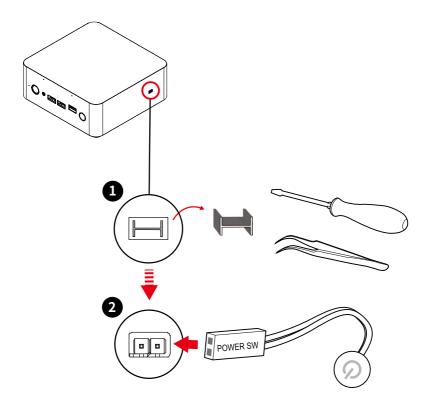
### Important

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

## Press the power button to power on the system

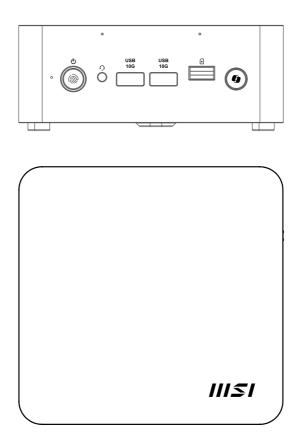


## Connect the power button switch cable (Optional)

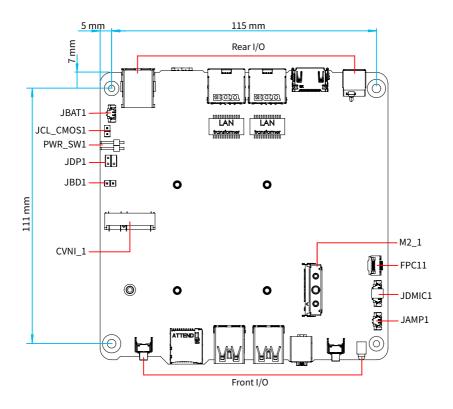


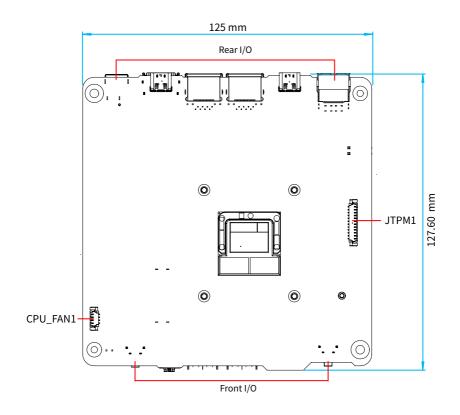
## **Placing the System**

Users can place the system horizontally or wall mount it.

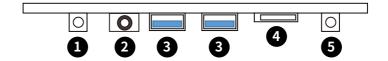


## **Mainboard Components**

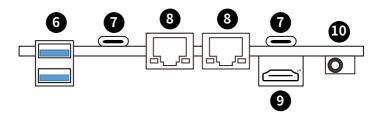




## Front I/O Connectors



## **Rear I/O Connectors**



- 1. Power Button
- 2. Combo Audio Jack
- 3. USB 10Gbps Type A Port
- 4. MicroSD Card Reader
- 5. Copilot Button

- 6. USB 2.0 Port
- 7. Thunderbolt<sup>™</sup> 4 Port (USB-C®)
- 8. 2.5 Gbps LAN Jack
- 9. HDMI™ Connector **H**□**I**III
- 10. Power Jack

## **Internal Headers & Connectors**

### JBAT1: Battery connector



Pin	Signal	Pin	Signal
1	VBAT2	2	GND

## JCL\_CMOS1: Clear CMOS jumper



Pin	Signal	Pin	Signal
1	RTCRST#	2	GND

### PWR\_SW1: Power switch header



Pin	Signal	Pin	Signal
1	PWRBTIN#	2	GND

### JDP1: Debug header



Pin	Signal	Pin	Signal
1	SIO_DEBUG	3	GND
2	VCC5	4	NC

## JBD1: BIOS debug header



Pin	Signal	Pin	Signal
1	GND	2	SOUTA

#### FPC11: USB2.0 header



Pin	Signal	Pin	Signal
1	NC	5	SBD3+
2	NC	6	SBD3-
3	NC	7	+3VALW
4	GND	8	+3VALW

### JDMIC1: DMIC connector



Pin	Signal	Pin	Signal
1	+3VRUN	4	DMIC_DATA
2	NC	5	GND
3	DMIC_CLK		

#### JAMP1: AMP connector



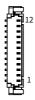
Pin	Signal	Pin	Signal
1	AMP+	2	AMP-

#### CPU\_FAN1: CPU FAN connector



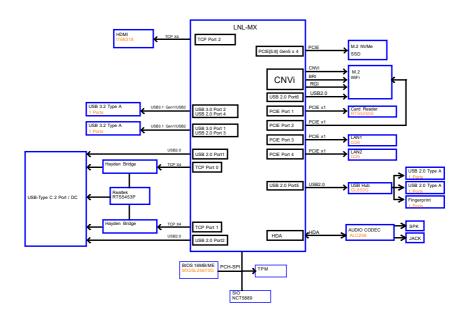
Pin	Signal	Pin	Signal
1	GND	3	SIO_CPU_FANTAC
2	VCC5	4	SIO_CPU_FAN

#### JTPM1: TPM module connector



Pin	Signal	Pin	Signal
1	3VSB	7	GND
2	PCH_SPI_CS2#	8	EC_PLTRST_TPM#
3	PCH_SPI_MISO	9	SPI_SW_SEL
4	PCH_SPI_MOSI	10	NC
5	PCH_SPI_CS#	11	PCH_SPI_IO2
6	PCH_SPI_CLK	12	SERIRQ

## **Block Diagram**



## **Windows 11 System Operations**



All information and Windows screenshots are 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.

- 1. Right-click [Start] and select [Power Options] from the list.
- 2. Adjust [Screen and sleep] settings and select a power mode from the list.
- 3. To choose or customize a power plan, type control panel in the search box and select [Control Panel].
- 4. Open up [All Control Panel Items] window. Select [Large icons] under [View by] drop-down menu.
- 5. Select [Power Options] to continue.
- 6. Select a power plan and fine-tune the settings by clicking [Change plan settings].
- 7. To create your own power plan, select (Create a power plan).
- 8. Select an existing plan and give it a new name.
- 9. Adjust settings for your new power plan.
- 10. The [Shut down or sign out] menu also presents power saving options for rapid and easy management of your system power.

## **Energy Savings**

The power management feature allows the computer to initiate a low-power or "Sleep" mode after a period of user inactivity. 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 10 minutes
- Initiate Sleep after 15 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:

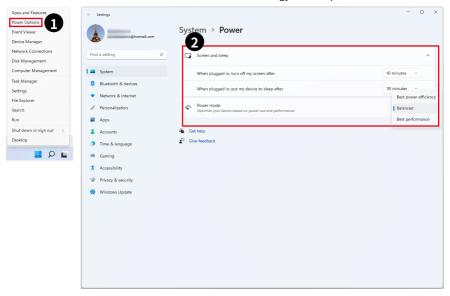
- the power button,
- the network (Wake On LAN),
- · the mouse.
- · the keyboard.

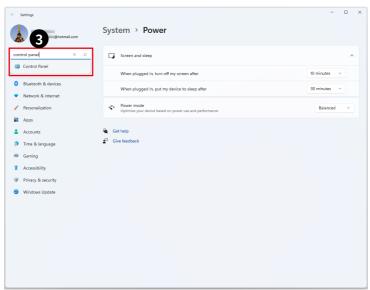


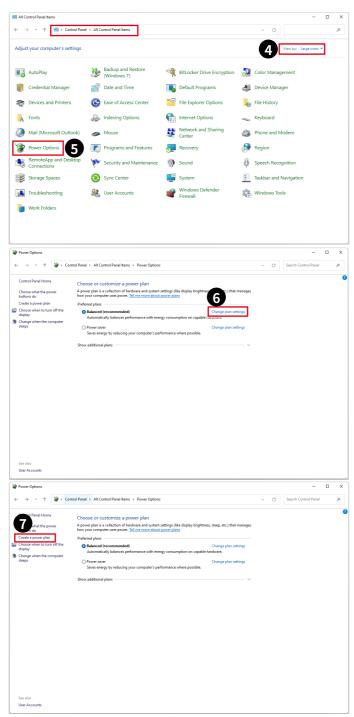
#### Energy Saving Tips:

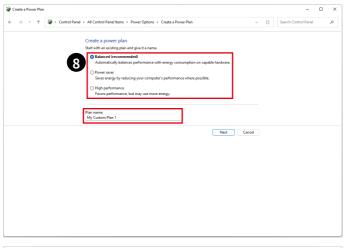
 Turn off the monitor by pressing the monitor power button after a period of user inactivity.

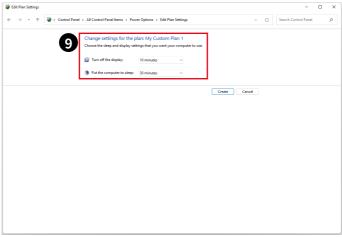
- Tune the settings in Power Options under Windows OS to optimize your PC's power management.
- Install power saving software to manage your PC's energy consumption.
- Always disconnect the AC power cord or switch the wall socket off if your PC would be left unused for a certain time to achieve zero energy consumption.









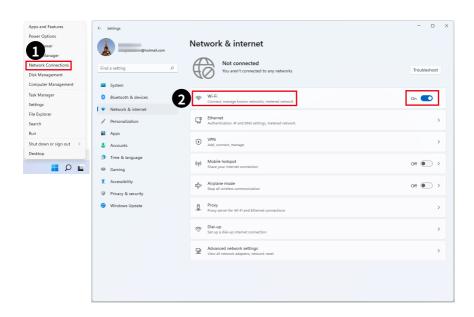


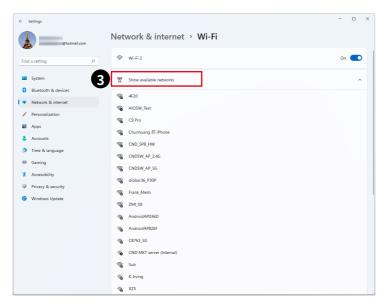


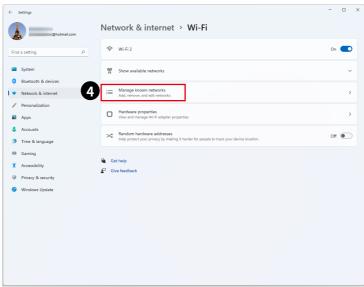
### **Network Connections**

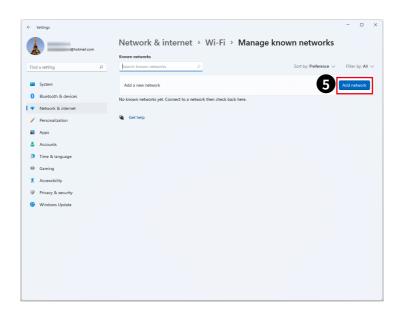
#### Wi-Fi

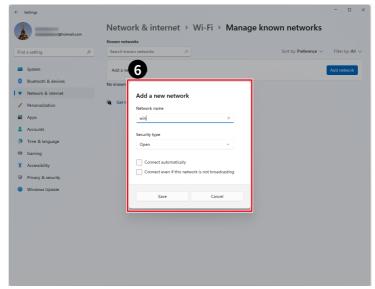
- 1. Right-click [Start] and select [Network Connections] from the list.
- 2. Select and turn on [Wi-Fi].
- 3. Select [Show available networks]. A list of available wireless networks pops up. Choose a connection from the list.
- 4. To establish a new connection, select [Manage known networks].
- 5. Select [Add network].
- 6. Enter information for the wireless network you intend to add and click [Save] to establish a new connection.





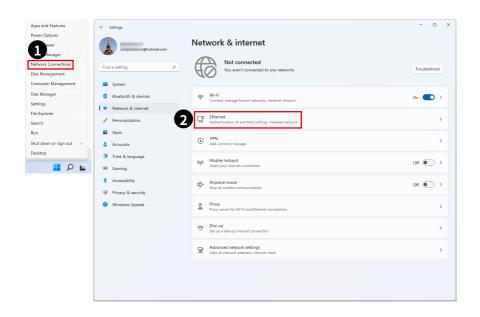


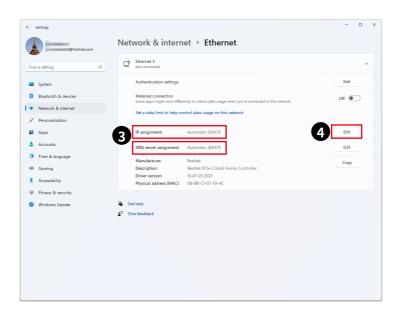


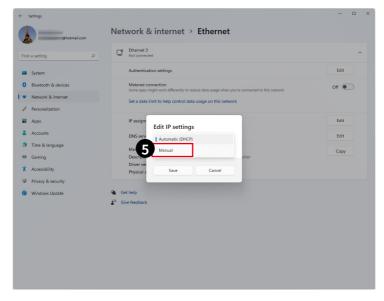


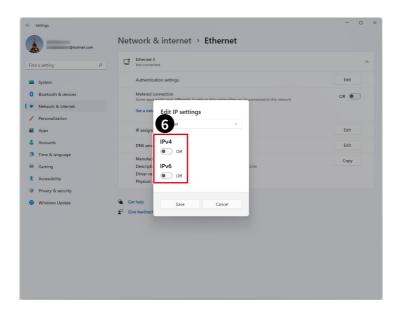
#### **Ethernet**

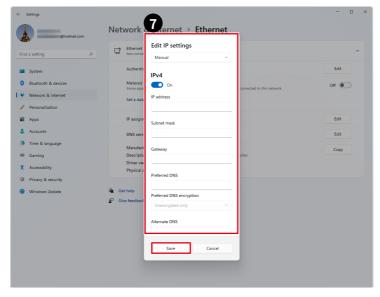
- 1. Right-click [Start] and select [Network Connections] from the list.
- 2. Select [Ethernet].
- 3. The [IP assignment] and [DNS server assignment] are automatically set as [Automatic (DHCP)].
- 4. For a Static IP connection, click [Edit] of [IP assignment].
- 5. Select [Manual].
- 6. Switch on the [IPv4] or [IPv6].
- 7. Type the information from your Internet Service Provider and click [Save] to establish a Static IP connection.





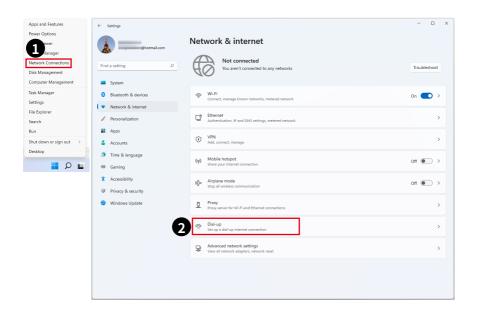


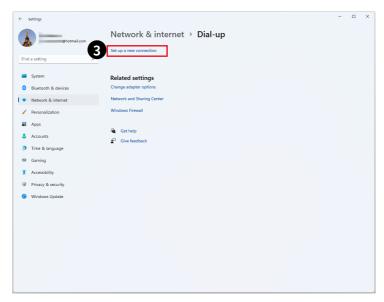




### Dial-up

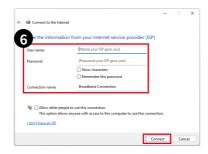
- 1. Right-click [Start] and select [Network Connections] from the list.
- 2. Select [Dial-up].
- 3. Select [Set up a new connection].
- 4. Choose [Connect to the Internet] and click [Next].
- Select [Broadband (PPPoE)] to connect using DSL or cable that requires a user name and password.
- 6. Type the information from your Internet Service Provider (ISP) and click [Connect] to establish your LAN connection.











## **System Recovery**

The purposes for using the System Recovery Function may include:

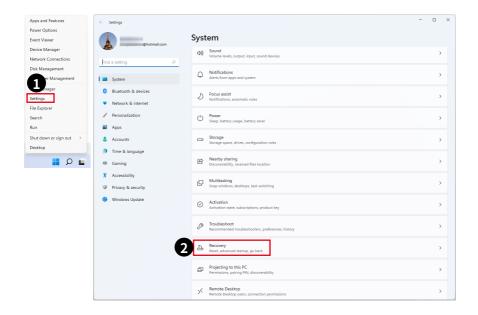
- Restore the system back to the initial status of original manufacturer's default settings.
- When some errors have occurred to the operating system in use.
- When the operating system is affected by virus and is not able to work normally.
- When you want to install the OS with other built-in languages.

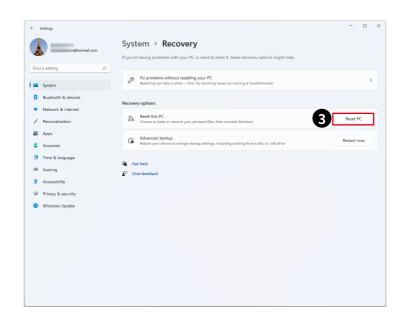
Before using the System Recovery Function, please back up the important data saved on your system drive to other storage devices.

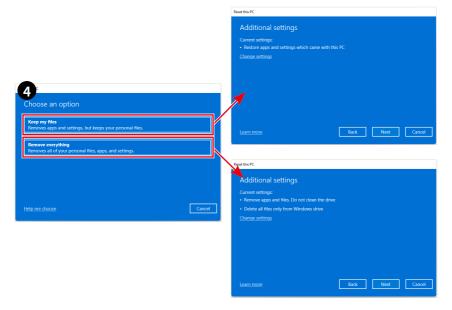
If the following solution fails to recover your system, please contact the authorized local distributor or service center for further assistance.

#### Reset this PC

- 1. Right-click [Start] and select [Settings] from the list.
- 2. Select [Recovery] under [System].
- 3. Click [Reset PC] to start the system recovery.
- The [Choose an option] screen pops up. Choose between [Keep my files] and [Remove everything] and follow the on-screen instructions to complete your system recovery.







## F3 Hotkey Recovery (Optional)

## **Precautions for Using the System Recovery Function**

- If your hard drive and system encountered non-recoverable problems, please use the F3 Hotkey recovery from the Hard Drive first to perform the System Recover Function.
- 2. Before using the System Recovery Function, please back up the important data saved on your system drive to other storage devices.

#### Recovering the system with the F3 Hotkey

Follow the instructions below to continue:

- 1. Restart the PC.
- 2. Press the F3 hotkey on the keyboard promptly when the MSI greeting appears on the display.
- 3. On the [Choose an option] screen, select [Troubleshoot].
- 4. On the [Troubleshoot] screen, select [Restore MSI factory settings] to reset the system to the default settings.
- 5. On the [RECOVERY SYSTEM] screen, select [System Partition Recovery].
- 6. Follow the on-screen instructions to continue and complete the Recovery Function.

## **Safety Instructions**

- Read the safety instructions carefully and thoroughly.
- All cautions and warnings on the device or User Guide should be noted.
- Refer servicing to qualified personnel only.

#### **Power**

- 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 device to the power outlet.
- If the power cord comes with a 3-pin plug, do not disable the protective earth pin from the plug. The device must be connected to an earthed mains socket-outlet.
- Please confirm the power distribution system in the installation site shall provide the circuit breaker rated 120/240V, 20A (maximum).
- Always unplug the power cord before installing any add-on card or module to the device.
- Always disconnect the power cord or switch the wall socket off if the device would be left unused for a certain time to achieve zero energy consumption.
- Place the power cord in a way that people are unlikely to step on it. Do not place anything on the power cord.
- If this device comes with an adapter, use only the MSI provided AC adapter approved for use with this device.

## **Battery**

Please take special precautions if this device comes with a battery.

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.
- Avoid disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, which can result in an explosion.
- Avoid leaving a battery in an extremely high temperature or extremely low air
  pressure environment that can result in an explosion or the leakage of flammable
  liquid or gas.
- Do not ingest battery. If the coin/button cell battery is swallowed, it can cause severe internal burns and can lead to death. Keep new and used batteries away from children.

#### **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.

#### BSMI:



#### 廢電池請回收

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

#### 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: https://dtsc.ca.gov/perchlorate/

#### **Environment**

- To reduce the possibility of heat-related injuries or of overheating the device, do not place the device on a soft, unsteady surface or obstruct its air ventilators.
- Use this device only on a hard, flat and steady surface.
- To prevent fire or shock hazard, keep this device away from humidity and high temperature.
- Do not leave the device in an unconditioned environment with a storage temperature above 60°C or below 0°C, which may damage the device.
- The maximum operating temperature is around 35°C.
- When cleaning the device, be sure to remove the power plug. Use a piece of soft cloth rather than industrial chemical to clean the device. Never pour any liquid into the opening; that could damage the device or cause electric shock.
- Always keep strong magnetic or electrical objects away from the device.
- If any of the following situations arises, get the device checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the device.
  - The device has been exposed to moisture.
  - The device does not work well or you can not get it working according to the User Guide.
  - The device has dropped and damaged.
  - The device has obvious sign of breakage.

## **ENERGY STAR® Statement**

ENERGY STAR® qualified products and practices help you save money and reduce greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy.

You can help reduce electricity usage and its environmental impact by power managing or turning off your product when it is not in use for extended periods of time, particularly at night and on weekends.

## **Regulatory Notices**

## **CE Conformity**

Products bearing the CE marking comply with one or more of the following EU Directives as may be applicable:



- RED 2014/53/EU
- Low Voltage Directive 2014/35/EU
- EMC Directive 2014/30/EU
- RoHS Directive 2011/65/EU
- ErP Directive 2009/125/EC

Compliance with these directives is assessed using applicable European Harmonized Standards.

The point of contact for regulatory matters is MSI-Europe: Eindhoven 5706 5692 ER Son.

## **Products with Radio Functionality (EMF)**

This product incorporates a radio transmitting and receiving device. For computers in normal use, a separation distance of 20 cm ensures that radio frequency exposure levels comply with EU requirements. Products designed to be operated at closer proximities, such as tablet computers, comply with applicable EU requirements in typical operating positions. Products can be operated without maintaining a separation distance unless otherwise indicated in instructions specific to the product.

# Restrictions for Products with Radio Functionality (select products only)



**CAUTION**: IEEE 802.11x wireless LAN with 5.15~5.35 GHz frequency band is restricted for indoor use only in all European Union member states, EFTA (Iceland, Norway, Liechtenstein), and most other European countries (e.g., Switzerland, Turkey, Republic of Serbia). Using this WLAN application outdoors might lead to interference issues with existing radio services.



#### Radio frequency bands and maximum power levels

• Features: Wi-Fi 6E/ Wi-Fi 7, BT

• Frequency Range:

2.4 GHz: 2400~2485MHz

5 GHz: 5150~5350MHz, 5470~5725MHz, 5725~5850MHz

6 GHz: 5955~6415MHz

Max Power Level:

2.4 GHz: 20dBm 5 GHz: 23dBm 6 GHz: 23dBm

## **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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

interference by one or more of the measures listed below:

- 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.

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.

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## **WEEE Statement**

Under the European Union ("EU") Directive on Waste Electrical and Electronic Equipment, Directive 2012/19/EU, 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.



#### **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: https://csr.msi.com/global/index

#### 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.

https://csr.msi.com/global/Japan-JIS-C-0950-Material-Declarations

#### **India RoHS**

This product complies with the "India E-waste (Management and Handling) Rule 2016" 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 10 March 2017, № 139, 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.

#### **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.
- Please visit <<a href="https://us.msi.com/page/recycling">https://us.msi.com/page/recycling</a> for information regarding the recycling of your product in the US.

## **Upgrade and Warranty**

Please note that certain components preinstalled in the product may be upgradable or replaceable by user's request. 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 https://www.msi.com/support/ for the detailed information about the acquisition of spare parts.

## **Copyright and Trademarks Notice**

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## **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 https://www.msi.com/support/