

Cubi Series Personal Computer

Cubi 6 1M (Cubi B0B1) Cubi 6 13MQ (Cubi B0B1)

User Guide

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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 B0B1	
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)	

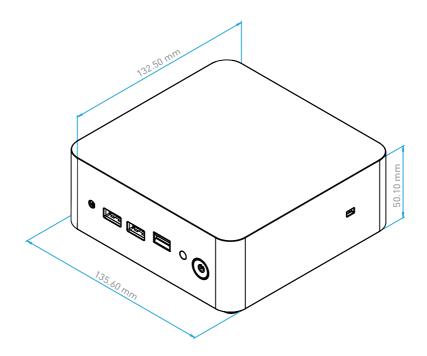
\Lambda Important

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

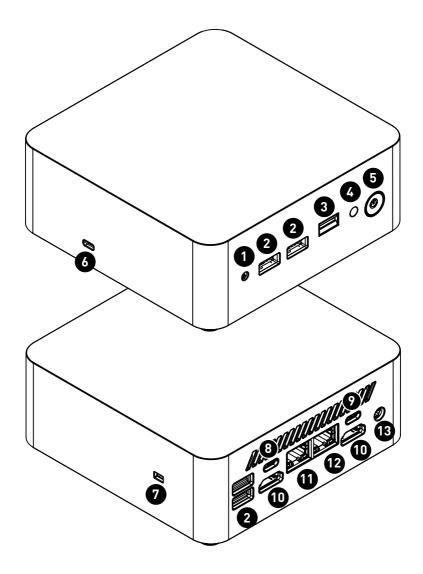
Safety & Comfort Tips

- 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.

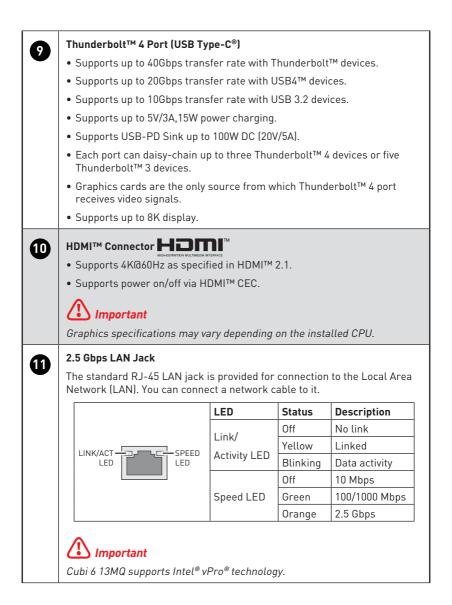
System Dimension



System Overview



1	Combo Audio Jack			
	This connector is provided for headphones or speakers or microphones.			
2	USB 3.2 Gen 2 Port			
9	This connector is provided for USB peripheral devices. (Speed up to 10 Gbps)			
3	MicroSD Card Reader			
	For MicroSD cards.			
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.			
A	Power Button			
5	Press the power button to turn the system on and off.			
6	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.			
7	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.			
8	Thunderbolt™ 4 Port (USB Type-C®)			
	• Supports up to 40Gbps transfer rate with Thunderbolt ${}^{\rm TM}$ devices.			
	 Supports up to 20Gbps transfer rate with USB4[™] 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[™] 4 devices or five Thunderbolt[™] 3 devices. 			
	 Graphics cards are the only source from which Thunderbolt[™] 4 port receives video signals. 			
	• Supports up to 8K display.			
	• Supports up to an display.			



	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/	Off	No link		
		Activity LED Speed LED	Yellow	Linked		
			Blinking	Data activity		
			Off	10 Mbps		
			Green	100/1000 Mbps		
			Orange	2.5 Gbps		
3	Power Jack					

Hardware Setup

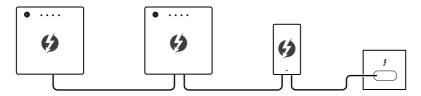
Connect your peripheral devices to suitable ports.

🚹 Important

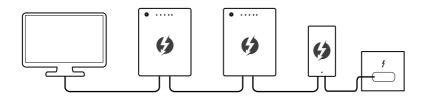
- For detailed instructions on how to connect, please refer to the manuals of your peripheral devices.
- Reference image only. Appearance will vary.

Connecting Thunderbolt Devices via Daisy-chain (Optional)

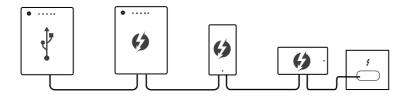
Daisy-chain is a method of connecting multiple devices to a PC with only one output terminal. Daisy-chain allows you to connect multiple Thunderbolt devices to a single Thunderbolt port on the front IO panel.



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

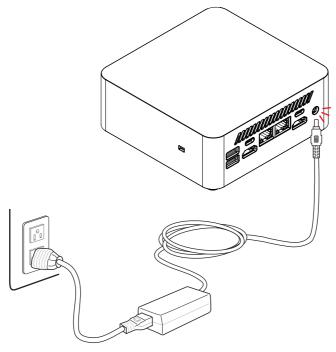


If you want to connect USB devices, please place them at the end of the chain.



Connect the power cord to the system and electrical outlet.

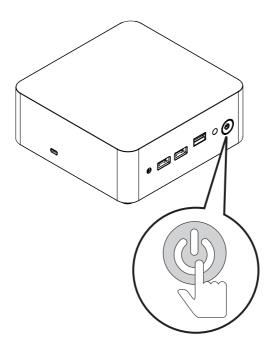
- External Power Supply: 120W, 19.5V
 - Input: 100~240Vac, 50/60Hz
 - Output: 19.5V === 6.15A



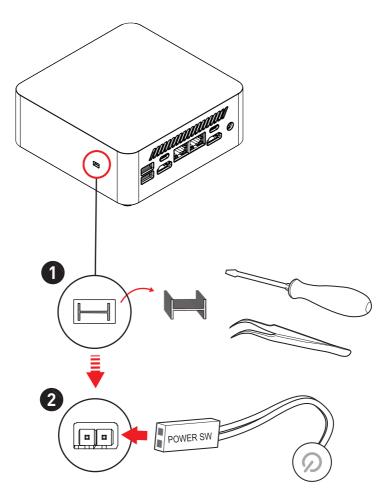
Important

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.

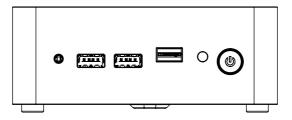


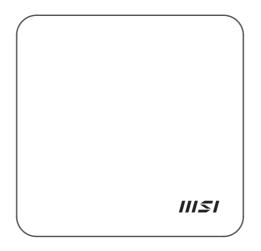
Connect the power button switch cable. (Optional)



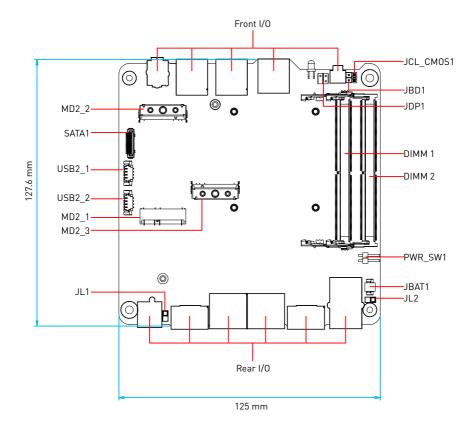
Placing the System

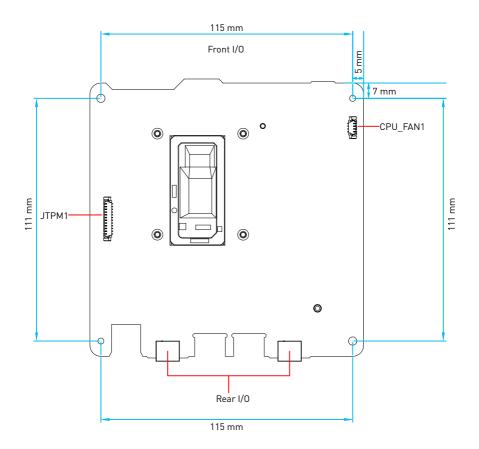
Users can place the system horizontally or wall mount it.



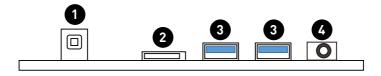


Mainboard Components

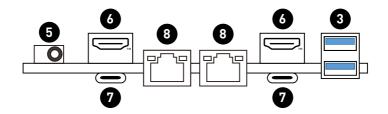




Front I/O Connectors



Rear I/O Connectors



- 1. Power Button
- 2. MicroSD Card Reader
- 3. USB 3.2 Gen 2 Port
- 4. Combo Audio Jack

- 5. Power Jack
- 6. HDMI™ Connector HDMI™
- 7. Thunderbolt[™] 4 Port (USB-C[®])
- 8. 2.5 Gbps LAN Jack

Internal Headers & Connectors

JCL_CMOS1: Clear CMOS jumper

Pin	Signal	Pin	Signal
1	RTCRST#	2	GND

PWR_SW1: Power switch header

	1	₽	Ē
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1

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

1

Pin	Signal	Pin	Signal
1	GND	2	SOUTA

USB2_1: USB2.0 header

1	¶E [−] 4
4	le_+

Pin	Signal	Pin	Signal
1	SVCC2	3	USBP8
2	USBN8	4	GND

USB2_2: USB2.0 header

Pin	Signal	Pin	Signal
1	SVCC2	3	USBP9
2	USBN9	4	GND

SATA1: SATA connector



Pin	Signal	Pin	Signal
1	GND	11	NC
2	SATA_TXP_0	12	VCC5
3	SATA_TXN_0	13	VCC5
4	GND	14	VCC5
5	GND	15	VCC5
6	SATA_RXN_0	16	VCC5
7	SATA_RXP_0	17	NC
8	GND	18	GND
9	GND	19	GND
10	GND	20	GND

CPU_FAN1: CPU FAN connector

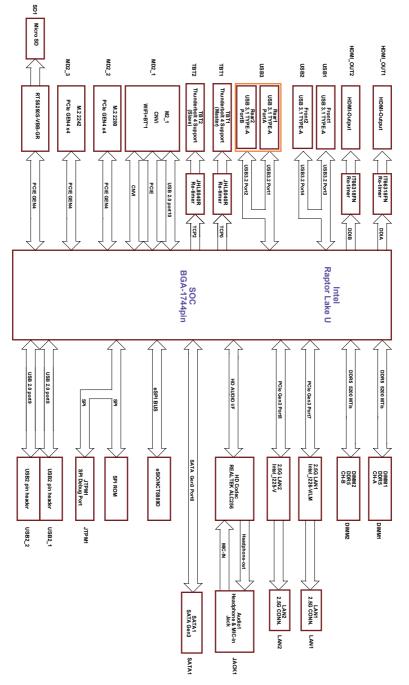
Pin	Signal	Pin	Signal
1	GND	3	SIO_CPU_FANTAC
2	VCC5	4	SIO_CPU_FAN

JTPM1: TPM module connector



Pin	Signal	Pin	Signal
1	3VSB	7	GND
2	PCH_SPI_CS2#	8	EC_PLTRST_TPM#
3	PCH_SPI_MIS0	9	SPI_SW_SEL
4	PCH_SPI_MOSI	10	NC
5	PCH_SPI_CS#	11	PCH_SPI_I02
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 30 minutes

Waking the System Up

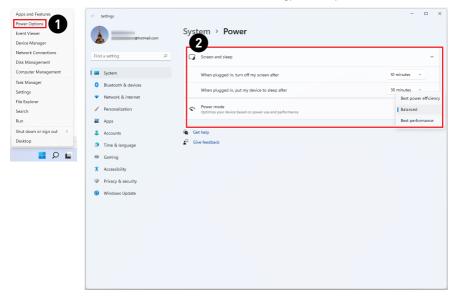
The computer shall be able to wake up from power saving mode in response to a command from any of the following:

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

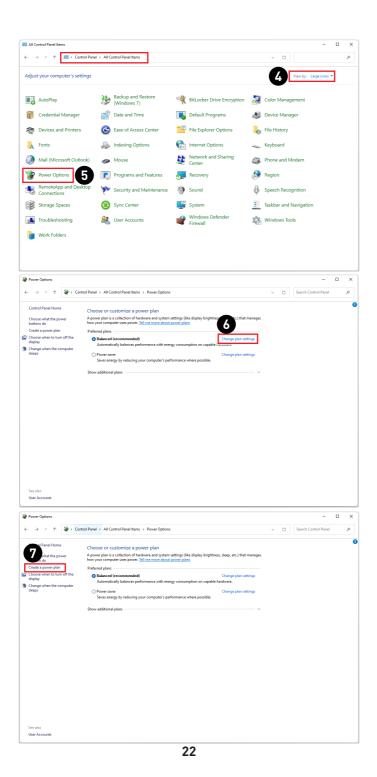


• Turn off the monitor by pressing the monitor power button after a period of user inactivity.

- 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.

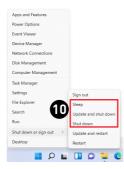


← Settings		- 0 ×
3 Shotmal.com	System > Power	
control panel × P	Screen and sleep	^
Control Panel	When plugged in, turn off my screen after	10 minutes v
8 Bluetooth & devices	When plugged in, put my device to sleep after	30 minutes ~
Network & internet Personalization	Power mode Optimize your device based on power use and performance	Balanced ~
📓 Apps		
Accounts	Get help	
3 Time & language	Give feedback	
Gaming		
X Accessibility		
Privacy & security		
😌 Windows Update		



→ · ↑ 🎽 Contro	Panel > All Control Panel Items > Power Options > Create a Power Plan	~ C	Search Control Panel	,
	Create a power plan			
	Start with an existing plan and give it a name.			
(O Balanced (recommended) Automatically balances performance with energy consumption on capable hardware. O Power saver			
	Saves energy by reducing your computer's performance where possible.			
	High performance			
	Favors performance, but may use more energy.			
	Plan name: My Custom Plan 1			
	Next	Cancel		

Edit Plan Settings							-	0	
\rightarrow \cdot \uparrow	🍃 > Control Panel	I > All Control Panel Items > Pow	er Options > Edit Plan	Settings		~ C	Search Control Panel		۶
	9	Change settings for the p Choose the sleep and display set							
		Turn off the display:	10 minutes	~					
		9 Put the computer to sleep:	30 minutes	~					
					Create Cance	4			

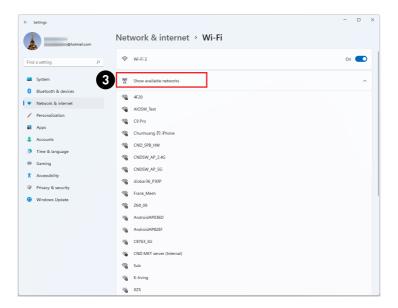


Network Connections

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.

Apps and Features	← Settings		- 0 ×
Power Options ever Manager Network Connections Disk Management	Pind a setting P	Network & internet Not connected Vou aren't connected to any networks	Troubleshoot
Computer Management	System		
Task Manager Settings	Bluetooth & devices	Wi-Fi Connect, manage known networks, metered network	On 💽
File Explorer Search	Personalization	C Ethernet Authentication, IP and DNS settings, metered network	>
Run Shut down or sign out	Apps Accounts	O VPN Add, connect, manage	>
Desktop	 Time & language Gaming 	(in) Mobile hotspot Share your internet connection	off
	 Accessibility Privacy & security 	b ¹ _b Airplane mode stop all wireless communication	off
	 Windows Update 	Proxy Broxy server for Wi-Fi and Ethernet connections	>
		전 Dial-up Set up a dial-up internet connection	>
		Advanced network settings View all network adapters, network reset	>



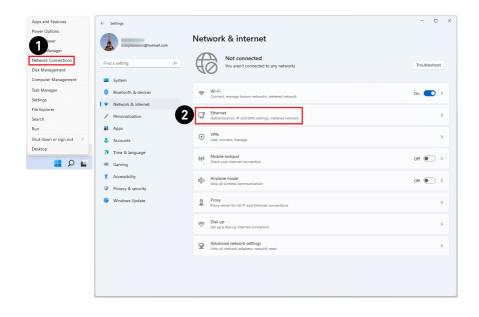
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Shotmail.com	Network & internet > Wi-Fi			
Find a setting ,0		On		
System Bluetooth & devices	発 Show available networks		~	
Bluetooth & devices Network & internet	I Anage known networks Add, remove, and edit networks		>	
Personalization Apps	Hardware properties View and manage W-Fi adapter properties		>	
Accounts Time & language	Random hardware addresses Help protect your privacy by making it harder for people to track your device location.	Off	•	
Gaming	🔓 Gethelp			
Accessibility Privacy & security	Certeip ₽ Give feedback			
Windows Update				

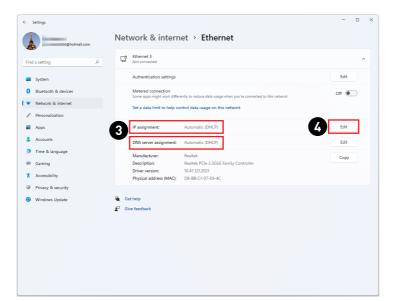
←	Settings		- 0 ×
	Chotmail.com	Network & internet > Wi-Fi > Manage known networks	
Fin	id a setting P	jearch known networks ♀ Sort by: Preference ∨	Filter by: All \smallsetminus
-	System	Add a new network	Add network
0	Bluetooth & devices	No known networks yet. Connect to a network then check back here.	
• ا	Network & internet		
1	Personalization	Get help	
	Apps		
:	Accounts		
3	Time & language		
	Gaming		
*	Accessibility		
	Privacy & security		
•	Windows Update		
ea X	Time & language Gaming Accessibility Privacy & security		

← Settings		- • ×
Shotmail.com	Network & internet > Wi-Fi > Manage known networ	ks
Find a setting P	Search known networks P Sort by: Preference	ce $ \lor $ Filter by: All $ \lor $
System	Add a net 6	Add network
Bluetooth & devices	No known	
🔹 Network & internet	Add a new network	
Personalization	Get h Network name	
Apps	win	
Accounts	Security type	
3 Time & language	Open ~	
🐵 Gaming		
X Accessibility	Connect automatically	
Privacy & security	Connect even if this network is not broadcasting	
Windows Update		
	Save Cancel	

Ethernet

- 1. Right-click [Start] and select [Network Connections] from the list.
- 2. Select [Ethernet].
- 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.





← Settings		- 🗆 ×
@hotmail.com	Network & internet > Ethernet	
Find a setting	Ethernet 3 Not connected	^
System	Authentication settings	Edit
8 Bluetooth & devices	Metered connection Some apps might work differently to reduce data usage when you're connected to this network	Off
📔 🗢 Network & internet	Set a data limit to help control data usage on this network	
/ Personalization	Set a data limit to help control data daage on this network	
👪 Apps	IP assigni Edit IP settings	Edit
Accounts	DNS serv Automatic (DHCP)	Edit
3 Time & language	Manual Manual	Сору
🐵 Gaming	Description	сору
* Accessibility	Driver ver Physical a Save Cancel	
Privacy & security		
Ø Windows Update	Get help	
	Give feedback	
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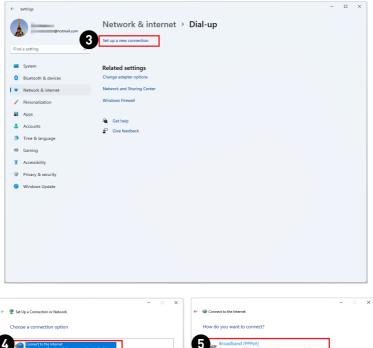
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8 Bluetooth & devices	Metered connection Some approximite work differently to reduce data scane when on the connected to this network	Off 🖲		
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Shotmail.com	Network	ternet > Ethernet		
Find a setting P	Ethernet Not conne	Edit IP settings Manual ~		^
System	Authentic	IPv4		Edit
8 Bluetooth & devices	Metered Some app	On On	connected to this network	off
🛛 🔻 Network & internet	Set a dati	IP address		
Personalization				
Apps	IP assign:	Subnet mask		Edit
Time & language	DNS serv			Edit
Gaming	Manufact Descriptic	Gateway	oller	Сору
* Accessibility	Driver vei Physical a			
Privacy & security		Preferred DNS		
Windows Update	Get help	Preferred DNS encryption		
	Give reedback	Unencrypted only ~		
		Alternate DNS		
			-	
		Save Cancel		

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.

Apps and Features	← Settings		- 0 ×
Power Options Manager	@hotmail.com	Network & internet	
Network Connections Disk Management	Find a setting	Not connected You aren't connected to any networks	Troubleshoot
Computer Management	System		
Task Manager Settings	8 Bluetooth & devices	Wi-Fi Connect, manage known networks, metered network	On 💽 >
File Explorer	 Network & internet 		
Search	Personalization	Ethernet Authentication, IP and DNS settings, metered network	>
Run	Apps	⇔ VPN	
Shut down or sign out	Accounts	VPN Add, connect, manage	>
Desktop	3 Time & language	(ty) Mobile hotspot	
📕 Q 📕	Gaming	Share your Internet connection	Off • >
	X Accessibility	Airplane mode Stop all wireless communication	Off
	Privacy & security	акор ин чистеля соптивникают	
	Windows Update	Proy Proy server for Wi-Fi and Ethernet connections	>
	2	Dial-up Set up a dial-up internet connection	>
		Advanced network settings View all network adapters, network reset	>







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.

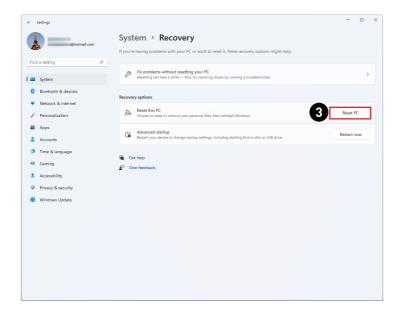
Before using the System Recovery Function, please back up the important data saved on your system drive to other storage devices.

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.
- **4.** 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.

Apps and Features Power Options	← Settings		-	0	×
Event Viewer		System			
Device Manager Network Connections	Photmail.com	 Sound Volume levels, output, input, sound devices 		>	
Disk Management	System	Q Notifications Alerts from apps and system		>	
Settings	Bidetooth & devices	D Focus assist Neoffications, automatic rules		>	
Search		O Power Steep, battery usage, battery saver		>	
-		Storage Storage space, drives, configuration rules		>	
a Q 📲		E Nearby sharing Discoverability, received files location		>	
 Recessibility Privacy & security Windows Update 	Multitasking Snap windows, desktops, task switching		>		
	Activation Activation state, subscriptions, product key		>		
		P Troubleshoot Recommended troubleshooters, preferences, history		>	
	2	E Recovery Reset, advanced startup, go back		>	
		D Projecting to this PC Permissions, pairing PRJ, discoverability		>	
		Remote Desktop Remote Desktop users, connection permissions		>	



	Reset this PC
	Additional settings Current settings: • Restore apps and settings which came with this PC <u>Change settings</u>
Choose an option Keep my files Removes aspa and settings, but keeps your personal files.	Learn more Back Next Cancel
Removes all of your personal files, apps, and settings.	Additional settings
Help.me.choose Cancel	Current settings Current settings • Remove apps and files. Do not clean the drive • Delete all files only from Windows drive <u>Change settings</u>
	Learn more Back Next Cancel

F3 Hotkey Recovery (Optional)

Precautions for Using the System Recovery Function

- 1. 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.

Regulatory Notices

CE Conformity

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

CE

- 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, 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 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.

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.

MSI Computer Corp.

901 Canada Court, City of Industry, CA 91748, USA

(626) 913-0828

www.msi.com

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, \mathbb{N}° 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.

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.



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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/