



NUC 16

NUC16WCK

NUC16WCK-B

User Guide

Regulatory Model: NUC16WCK

Important information

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Service and Support

Visit our multi-language website at <https://www.asus.com/support/>.

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About this guide

This user guide includes information on the following NUC SKUs:

- **NUC Mini PC**
(Memory and M.2 solid state drive(s) already included in the NUC system; Windows 11 64-bit Operating System included):
Specifications and steps to set up your NUC Mini PC.
- **NUC Kit (barebones)**
(Memory and M.2 solid state drive not included on some kits; Operating system not included on all kits):
Specifications and steps to set up your NUC Kit.

NOTE: Memory, M.2 solid state drive, and operating system are purchased separately (on selected models).

Audience

This user guide is intended to provide basic setup information about the NUC Mini PC, NUC Kit and components to vendors, system integrators, and other engineers and technicians who need this level of information.

Conventions used in this guide

To highlight key information in this manual, some text are presented as follows:

IMPORTANT! This message contains vital information that must be followed to complete a task.

NOTE: This message contains additional information and tips that can help complete tasks.

WARNING! This message contains important information that must be followed to keep you safe while performing certain tasks and prevent damage to your NUC system's data and components.

Other Common Notation

Abbrev.	Description
#	Used after a signal name to identify an active-low signal (such as USBP0#)
GB	Gigabyte (1,073,741,824 bytes)
GB/s	Gigabytes per second
Gb/s	Gigabits per second
KB	Kilobyte (1024 bytes)
Kb	Kilobit (1024 bits)
kb/s	1000 bits per second
MB	Megabyte (1,048,576 bytes)
MB/s	Megabytes per second
Mb	Megabit (1,048,576 bits)
Mb/s	Megabits per second
TDP	Thermal Design Power
xxh	An address or data value ending with a lowercase h indicates a hexadecimal value.
x.x V	Volts. Voltages are DC unless otherwise specified.
x.x A	Amperes.

Production identification information

ASUSTeK NUC Product NUC 16 Identification Information

Project Code	NUC 16
NUC16WCK-B	Kit
NUC16WCK	Mini PC

Where to find more information

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

ASUS website

The ASUS website (www.asus.com) provides updated information on ASUS hardware and software products.

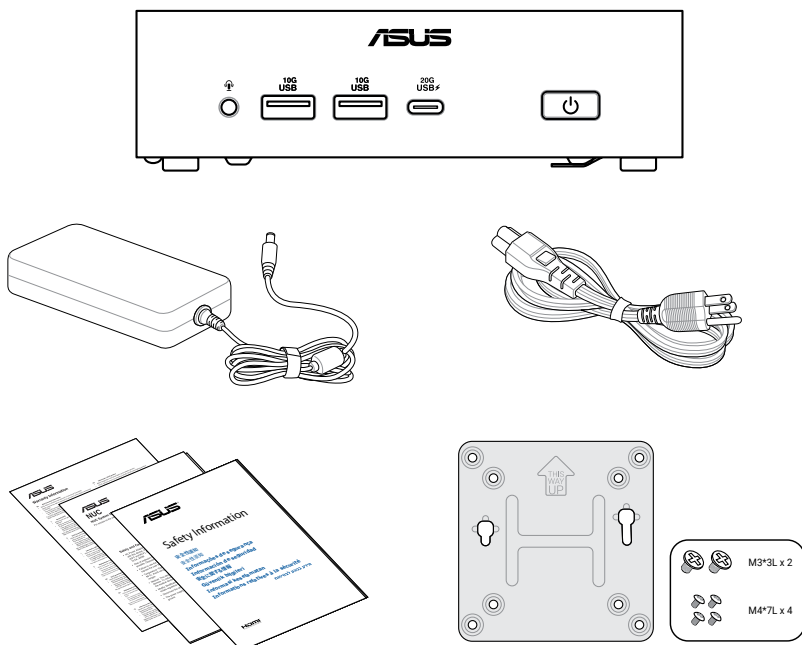
Safety and caution information

- Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories from other products to prevent the risk of electric shock or fire.
- This device may interfere with the operation of some pacemakers, hearing aids or other medical devices. To reduce the risk, maintain a separation distance of 20cm (8 inches) between the device and the medical device. Refer to the medical device for additional information.
- Modification of the wireless solution, thermal solution, device components or enclosure shall violate regulatory compliance requirements and may induce safety hazards.



Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

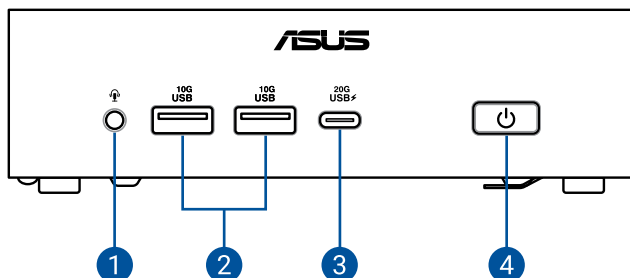
Package contents



NOTE:

- The most up-to-date and accurate product specifications are available on www.asus.com for download.
 - Product and accessory images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
 - The bundled power adapter may vary depending on the model and the country (or region) of sale.
 - The availability of the power cord may vary depending on the country (or region) of sale.
 - Some bundled accessories may vary depending on the model. For details on these accessories, refer to their respective user manuals.
 - If the device or its components fail or malfunction during normal and proper use within the warranty period, bring the warranty card to the ASUS Service Center for replacement of the defective components.
-

Front view

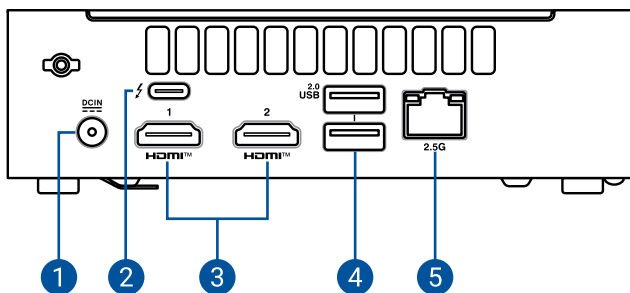


- | | |
|----------------------------|----------------------------|
| 1. 3.5mm combo audio jack | 3. USB 20Gbps Type-C® port |
| 2. USB 10Gbps Type-A ports | 4. Power button |

NOTE: USB Type-C® port power profiles:

- 5V @ 3A (primary)
- 5V @ 1.5A (secondary)

Rear view (Single LAN model)

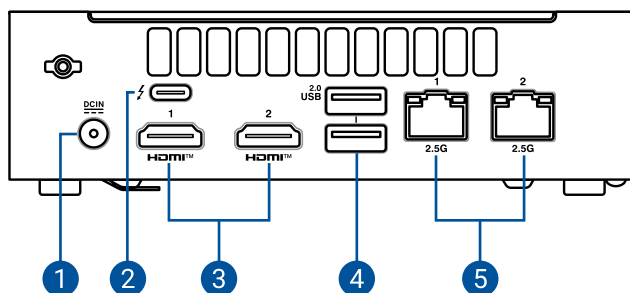


- | | |
|---|-----------------|
| 1. Power input jack | 4. USB 2.0 port |
| 2. Thunderbolt™ 4 port with DisplayPort 2.1 | 5. LAN Port |
| 3. HDMI™ port | |

NOTE: USB Type-C® port power profiles:

- 5V @ 3A (primary)
- 5V @ 1.5A (secondary)

Rear view (Dual LAN model)

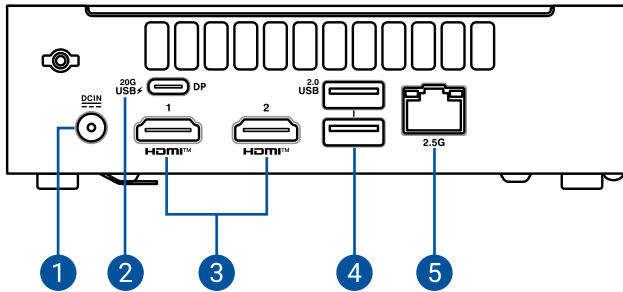


- | | |
|---|-----------------|
| 1. Power input jack | 4. USB 2.0 port |
| 2. Thunderbolt™ 4 port with DisplayPort 2.1 | 5. LAN Port |
| 3. HDMI™ port | |

NOTE: USB Type-C® port power profiles:

- 5V @ 3A (primary)
 - 5V @ 1.5A (secondary)
-

Rear view (Windows 365 model)



- | | |
|---|-----------------|
| 1. Power input jack | 4. USB 2.0 port |
| 2. USB4® (20Gbps) Type-C® port with DisplayPort 2.1 | 5. LAN Port |
| 3. HDMI™ port | |

NOTE: USB Type-C® port power profiles:

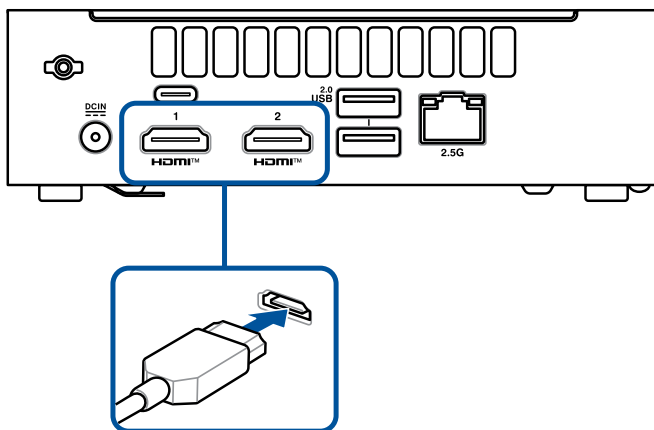
- 5V @ 3A (primary)
 - 5V @ 1.5A (secondary)
-

NUC Mini PC setup guide

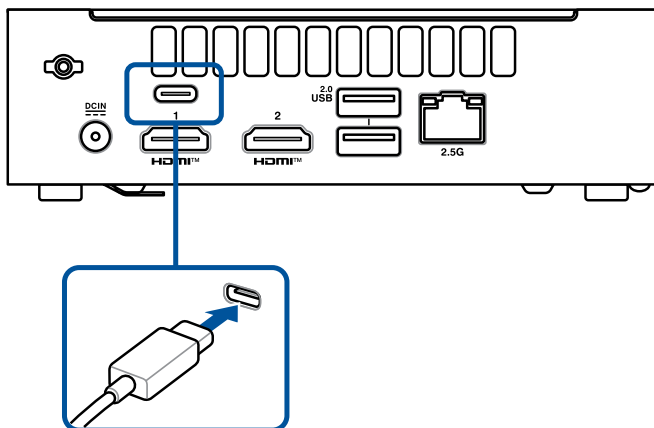
Connecting the display

NOTE: The illustrations in this section are for reference only, the ports may differ slightly between models, but the location of the ports to connect the display remain the same.

HDMI™ port



USB Type-C® DisplayPort



Display resolution table (Single LAN model, Dual LAN model):

Single Display

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	-
USB Type-C® TBT/DP	-	4K (3840 x 2160 @60Hz)	-
HDMI™ 2 (2.1 TMDS)	-		4K (3840 x 2160 @60Hz)

Dual Displays

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB Type-C® DP	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	-
HDMI™ 1 (2.1 TMDS) + HDMI™ 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	4K (3840 x 2160 @60Hz)
USB Type-C® TBT/DP + HDMI™ 2 (2.1 TMDS)	-	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Triple Displays

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB Type-C® TBT/DP + HDMI™ 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Daisy Chain Triple Displays

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB Type-C® TBT/DP (daisy chain)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	-
USB4® Type-C® DP (daisy chain) + HDMI™ 2 (2.1 TMDS)	-	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Display resolution table (Windows 365 model):

Single Display

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB4® Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	-
USB4® Type-C® DP	-	4K (3840 x 2160 @60Hz)	-
HDMI™ 2 (2.1 TMDS)	-		4K (3840 x 2160 @60Hz)

Dual Displays

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB4® Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB4® Type-C® DP	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	-
HDMI™ 1 (2.1 TMDS) + HDMI™ 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	4K (3840 x 2160 @60Hz)
USB4® Type-C® DP + HDMI™ 2 (2.1 TMDS)	-	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Triple Displays

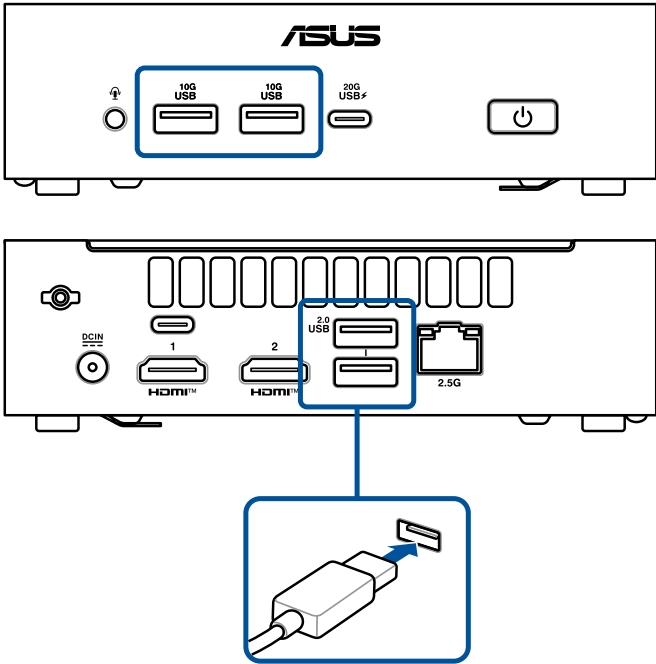
Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB4® Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB4® Type-C® DP + HDMI™ 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Daisy Chain Triple Displays

Port Combination	Resolution/Refresh for Individual Port(s)		
	HDMI™ 1	USB Type-C® DP	HDMI™ 2
HDMI™ 1 (2.1 TMDS) + USB Type-C® TBT/DP (daisy chain)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	-
USB4® Type-C® DP (daisy chain) + HDMI™ 2 (2.1 TMDS)	-	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

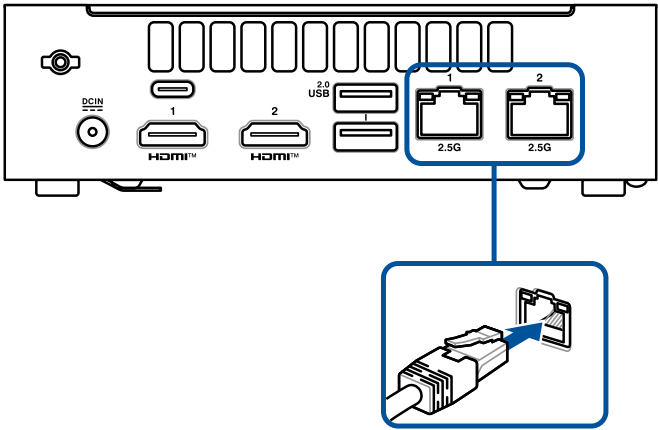
Connecting the keyboard and mouse

NOTE: The illustrations in this section are for reference only, the ports may differ slightly between models, but the location of the USB ports remain the same.

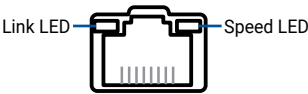


Connecting the LAN cable

NOTE: The illustrations in this section are for reference only, the ports may differ slightly between models, but the location of the LAN ports remain the same.



LAN port LED indications:



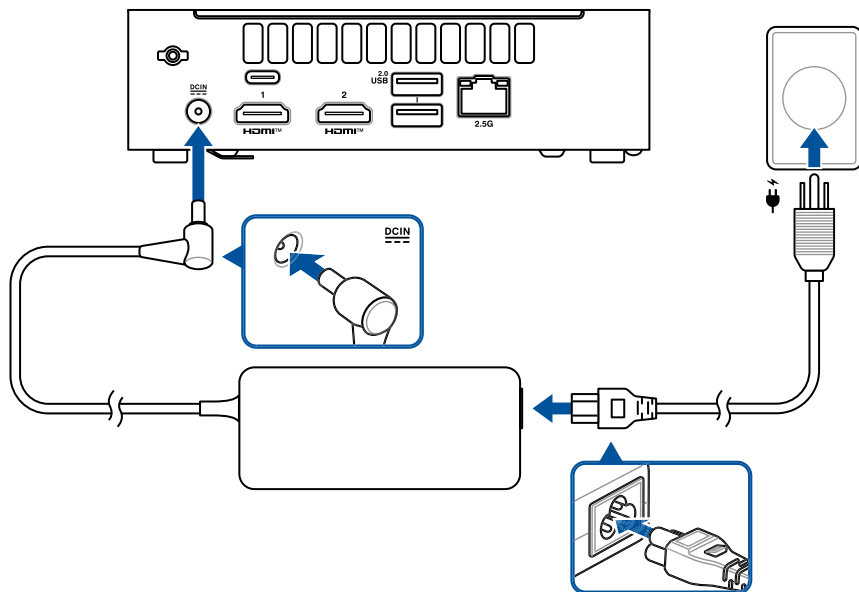
Link LED	
Status	Description
OFF	No link
GREEN	Linked
BLINKING	Data activity

Speed LED	
Status	Description
OFF	100 Mbps / 10 Mbps connection
YELLOW	1 Gbps connection
GREEN	2.5 Gbps connection

Connecting the power adapter

NOTE: The illustrations in this section are for reference only, the ports may differ slightly between models, but the location of the power input jack remains the same.

DC-in power adapter



NOTE: Please refer to the following for more information on the DC-in power adapter and the system:

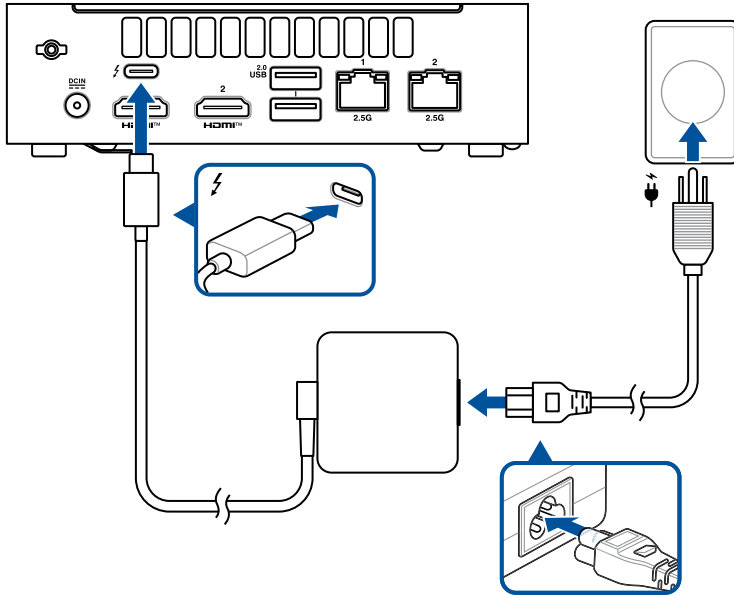
90W Power adapter

- Input voltage: 100-240 Vac
- Input frequency: 50-60 Hz
- Output current: 4.74A (90.0 W)
- Output voltage: 19 Vdc
- Rated for use between 0°C and 40°C (32°F and 104°F)

System

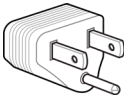
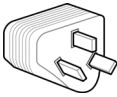
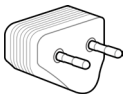
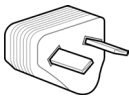
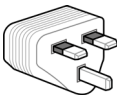
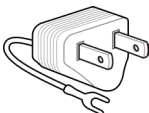
- Rated input current: 4.74A (90.0 W)
- Rated input voltage: 19 Vdc
- Operating temperature: 0°C to 40°C (32°F to 104°F)

USB Type-C® power adapter



NOTE:

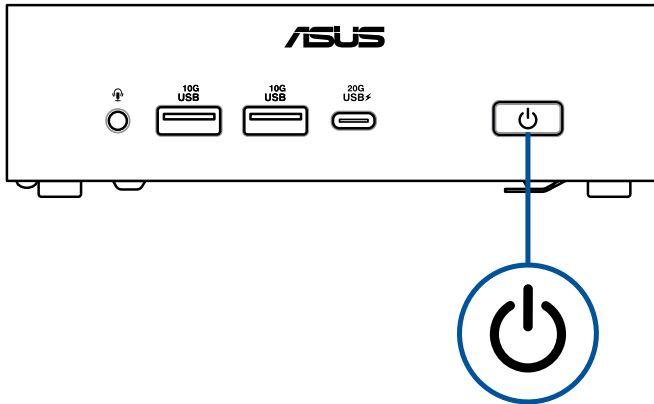
- Please refer to the following for more information on the system:
 - Rated input current: 4.74A (90.0 W)
 - Rated input voltage: 19 Vdc
 - Operating temperature: 0°C to 40°C (32°F to 104°F)
 - When using a USB Type-C® power adapter up to 100W of power delivery is supported. 65W or less power delivery is not allowed.
 - USB Type-C® power adapter is purchased separately.
-

Plug	Code	Country
	US	United States
	CN	China
	EU	European Union
	AU	Australia
	UK	United Kingdom
	JP	Japan (Type-A)

Operating Systems

Standard operating systems (such as Windows 11) installed on this product fully support ACPI power management standards. If the product is supplied without a pre-installed standard operating system, or is operated under non-local cloud system environments, an ACPI-compatible operating system must be installed or configured to ensure full support of power management functions.

Powering on the system



NOTE: To view the current power management settings in Windows® 11, click the **Start Button**. Type *Power Management*, then press <Enter>.

Default settings on a new system, as received, has the recommended settings (below) applied.

NOTE: This section only applies to the NUC Mini PC, and is not applicable to the NUC Kit or NUC Board.

BIOS settings

NOTE: Enter BIOS Setup by pressing **F2** during startup. If you're using this system at home, it is unlikely you will need to alter these settings.

- Fan mode - Set to Standard.
- After Power Failure - System stays off; press the power button to restart.
- Modern standby indicator - Power light on the front of the system will blink on and off. (This is sleep mode)
- Wake-on-LAN S5 - System will power up to a normal boot. (This is for IT departments)

Operating System Settings (Windows® 11)

- Turn Off the Display - 5 Minutes. (Your monitor will go blank)
- Put the Computer to Sleep - Within 5 minutes of user inactivity.

To Wake Your Computer

- To wake your system up from display sleep or HDD power off
- Put the Computer to Sleep - Within 5 minutes of user inactivity.

Managing power modes

Putting your NUC system to the Off mode with fast startup enabled

You can put your NUC system to the Off mode with fast startup enabled:

Enter **Control Panel** in the search bar and open it (**View by: Category**), select **Hardware and Sound > Power Options > Choose what the power button does**, click **Change settings that are currently unavailable**, select **Turn on fast startup (recommended)** and click **Save changes**.

- Launch the Start menu, select the power icon then select **Shut down** to do a normal shutdown.
From the log-in screen, select the power icon then select **Shut down**.
- Press <alt> + <F4> to launch Shut Down Windows. Select **Shut down** from the drop-down list then select **OK**.
If your NUC system is unresponsive, press and hold the power button for at least four (4) seconds until your NUC system turns off.

Putting your NUC system to sleep

You can put your NUC system to Sleep mode in two ways:

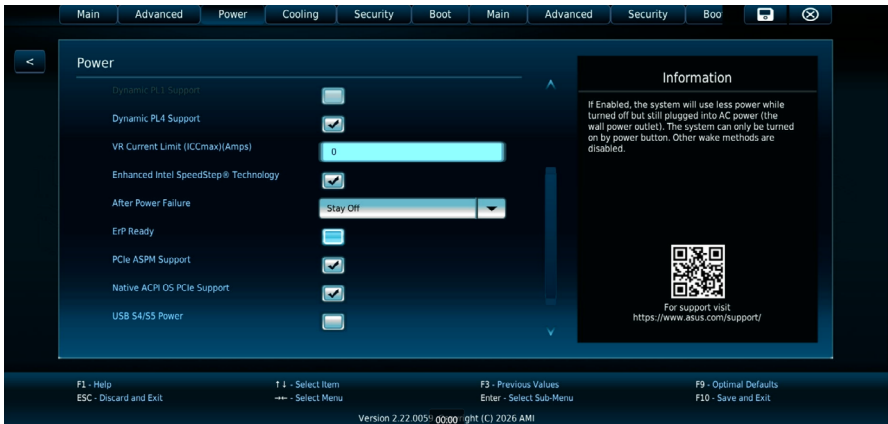
- Launch the Start menu, select the power icon then select **Sleep** to put your NUC system to sleep.
From the log-in screen, select the power icon then select **Sleep**.
- Press <alt> + <F4> to launch Shut Down Windows. Select **Sleep** from the drop-down list then select **OK**.

NOTE: You can also put your NUC system to Sleep mode by pressing the power button once.

Putting your NUC system to the lowest power mode

You can put your NUC system to the lowest power mode by following the steps below:

- Enter BIOS setup by pressing <F2> or during the boot process.
- Go to **Power > ErP Ready**, and select **Enabled**.



- Enter **Control Panel** in the search bar and open it (**View by: Category**), select **Hardware and Sound > Power Options > Choose what the power button does**, click **Change settings that are currently unavailable**, clear **Turn on fast startup (recommended)** and click **Save changes**.
- Launch the Start menu, select the power icon then select **Shut down** to do a normal shutdown.
From the log-in screen, select the power icon then select **Shut down**.
- Press <alt> + <F4> to launch Shut Down Windows. Select **Shut down** from the drop-down list then select **OK**.
If your NUC system is unresponsive, press and hold the power button for at least four (4) seconds until your NUC system turns off.

Enabling fast startup

You can shut down the your NUC system with fast startup enabled.

To enable fast startup in Shutdown settings:

Enter **Control Panel** in the search bar and open it (**View by: Category**), select **Hardware and Sound > Power Options > Choose what the power button does**, click **Change settings that are currently unavailable**, select **Turn on fast startup (recommended)** and click **Save changes**.

NOTE: If fast startup is disabled, when you shut down the your NUC system, it shuts down to the S5 power state.

NUC component integration guide

IMPORTANT! ASUS is not responsible for direct, indirect, intentional or unintentional damages resulting from improper installation and operation.

NOTE: The illustrations in this section are for reference only. The chassis may vary between models, but the installation/removal steps remain the same.

Safety precautions

- This device is intended for use in ambient temperatures between 0°C and 40°C (32°F and 104°F). Avoid using or storing next to heat sources, in direct sunlight, or outside the intended temperature ranges.
- Do not use this product near water or a heated source.
- Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- Use this product in environments with ambient temperatures between 0°C and 40°C.
- Failure to use the included power adapter shall violate regulatory compliance requirements and may expose the user to safety hazards.
- Risk of electric shock, fire, or burn if using an AC adapter other than the one provided with this device. Indoor use only and in dry locations. The adapter is rated for use between 0°C and 40°C (32°F and 104°F).
- If you use an extension cord, make sure that the total ampere rating of the devices plugged into the extension cord does not exceed its ampere rating.
- The power supply cord must be plugged into a socket or outlet that is provided with a suitable earth ground.
- This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.
- Do not install this equipment at a height exceeding 2 meters

Care during use

- Do not walk on the power cord or allow anything to rest on it.
- Do not spill water or any other liquids on your system.
- When the system is turned off, a small amount of electrical current still flows. Always unplug the power cord from the power outlets before cleaning the system.
- If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - The power cord or plug is damaged.
 - Liquid has spilled into the system.
 - The system does not function properly even if you follow the operating instructions.
 - The system was dropped, or the cabinet is damaged.
 - The system performance changes.
- Avoid contact with hot components inside the Mini PC. During operation, some components become hot enough to burn the skin. Before you open the computer cover, turn off the computer, disconnect the power, and wait approximately 30 minutes for the components to cool.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.
- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Before you begin

1. Read the entire manual before starting any service procedures and follow all instructions.
 2. Back up your NUC system.
 3. Turn off your NUC system.
 4. Place your NUC system on a stable surface.
 5. Disconnect all connected peripherals and cables.
-

IMPORTANT!

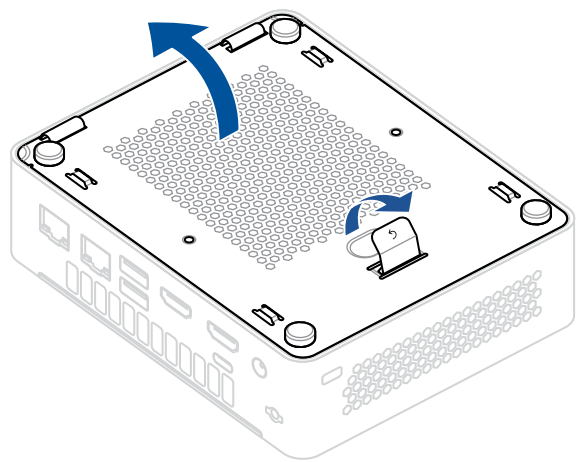
- Purchase replacement components from an authorized retailer of this NUC system to ensure maximum compatibility and reliability.
 - Refer to <https://www.asus.com> for a list of compatible components.
-

NOTE:

- The illustrations are for reference only.
 - Product and component images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
 - Keep all adhesive tape, insulating materials, screws, and other removable items in a safe place until the service procedure is completed, as they may be needed during installation.
-

Opening system

Lift the latch upwards, then flip the bottom cover open by pulling on the latch.



DDR5 CSODIMM installation

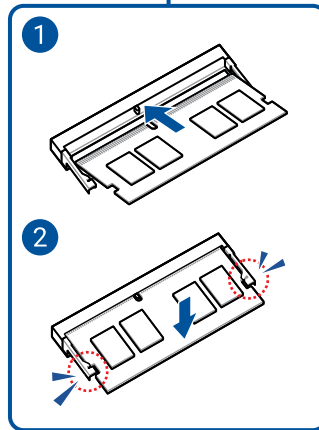
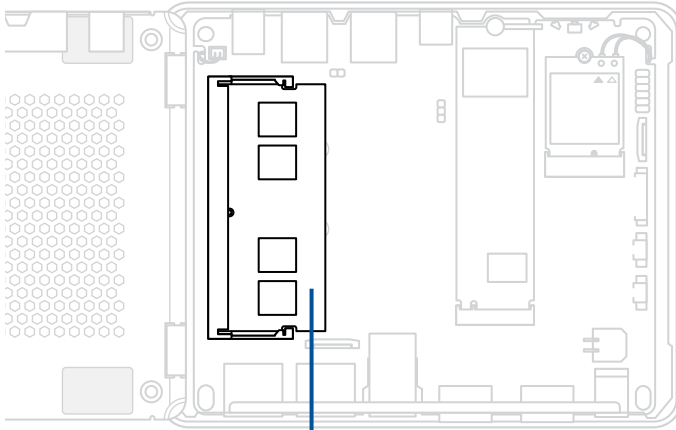
To install memory, be sure to select memory modules that meet these requirements:

- 1.1V low voltage memory
- Up to DDR5 6400 MHz CSODIMM
- Non-ECC
- Up to 64 GB of system memory with one CSODIMM using 64 GB memory modules

Find compatible and validated memory modules in the ASUS Qualified Vendor List at www.asus.com/support.

NOTE: 2 Gb, 4 Gb, and 8 Gb memory technology (SDRAM Density) is not supported.

1. Align the small space at the bottom edge of the DDR5 CSODIMM with the key on the CSODIMM slot, then insert the DDR5 CSODIMM into the CSODIMM slot.
2. Push the DDR5 CSODIMM down until the retaining clips clicks into place.



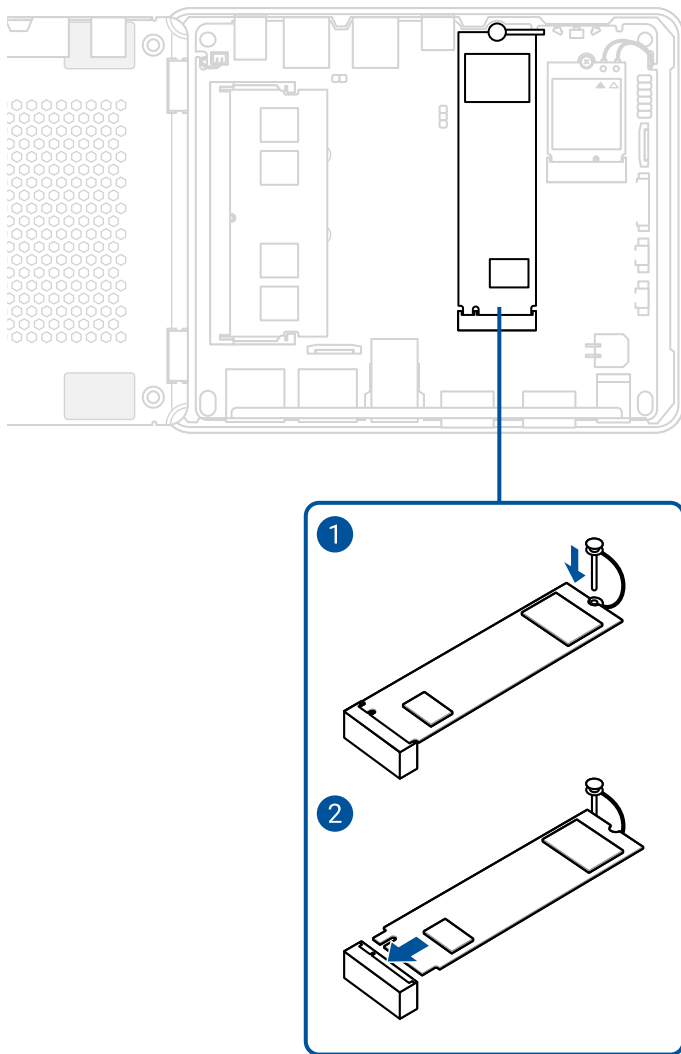
M.2 installation

This system supports the following:

- One M.2 PCIe Gen4x4 connector supporting M.2 22x80 (key type M) for NVMe SSD.

Find compatible and validated M.2 modules in the ASUS Qualified Vendor List at www.asus.com/support.

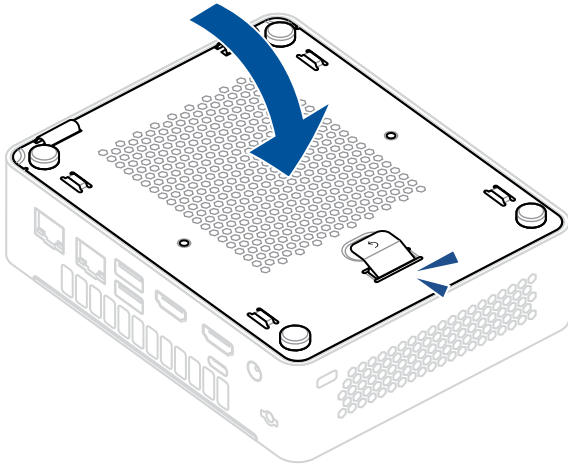
1. Insert the M.2 module into the M.2 slot on the system board.
2. Rotate the Q-Latch counterclockwise to secure the M.2 module in place.



Closing system

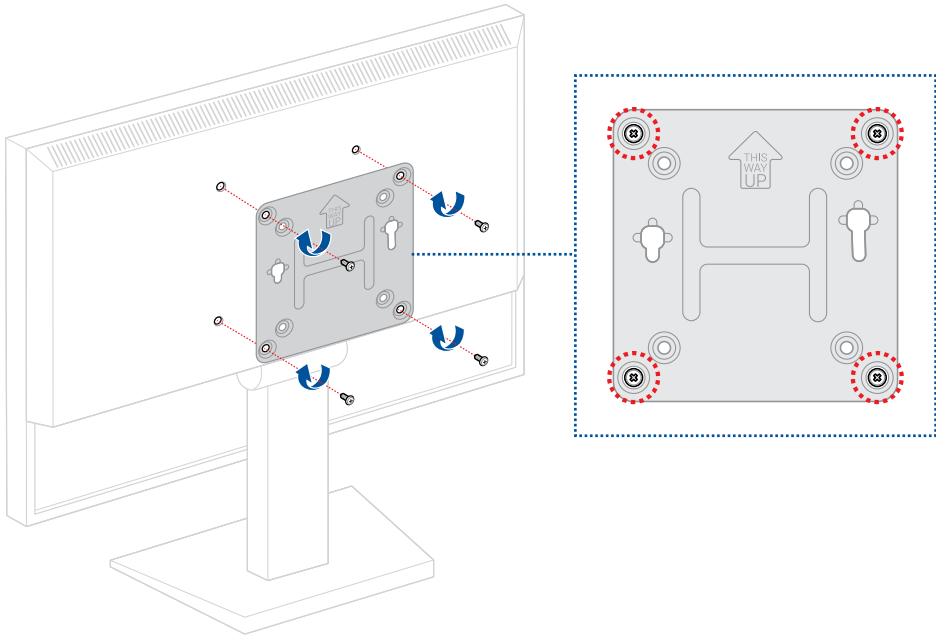
Close the bottom cover.

NOTE: Ensure the bottom cover is closed properly. A loud click should be heard when the bottom cover is properly closed.

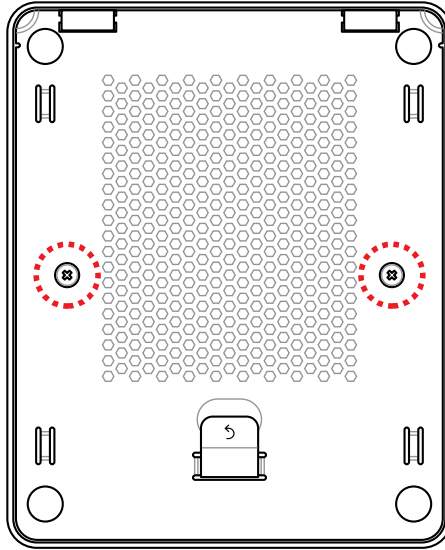


VESA mount installation

1. Attach the VESA bracket to the back of the monitor or TV using the four (4) bundled screws with the THIS WAY UP arrow indicator pointing upwards.

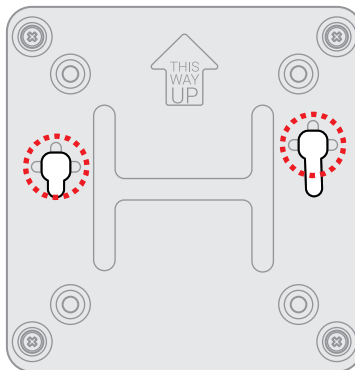


2. Attach the two (2) bundled slightly larger black screws to the bottom chassis cover of the NUC system.



3. Align the screws on the NUC system to the notches on the VESA mount.

NOTE: Your NUC system will be tilted slightly when properly aligned.



4. Slide the NUC system downwards so that the screws are attached and secured to the VESA mount.

