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NUC 15 Pro

NUC15CRK

NUC15CRK-B

NUC15CRH

NUC15CRH-B

User Guide

Regulatory Model: NUC15CRK, NUC15CRH

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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; Operating system not included):
Specifications and steps to set up your NUC Kit.

NOTE: Memory, M.2 solid state drive, and operating system are purchased separately for this SKU.

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

#	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 15 Pro Identification Information

Product Name	NUC 15 Pro
NUC15CRK-B	Kit
NUC15CRH-B	
NUC15CRK	Mini PC
NUC15CRH	

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.

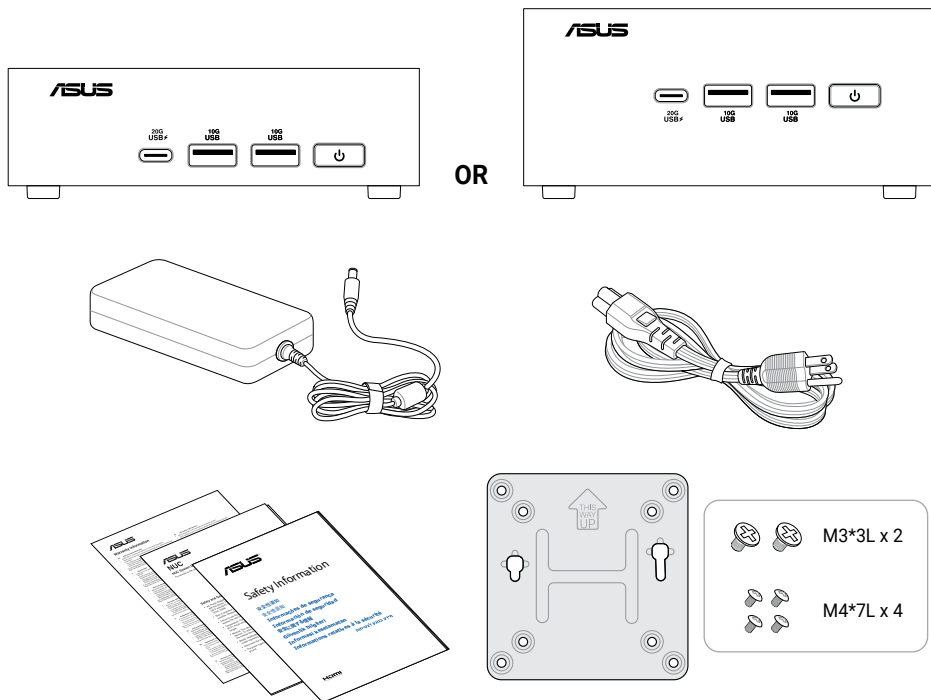
Safety and caution information

- 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.

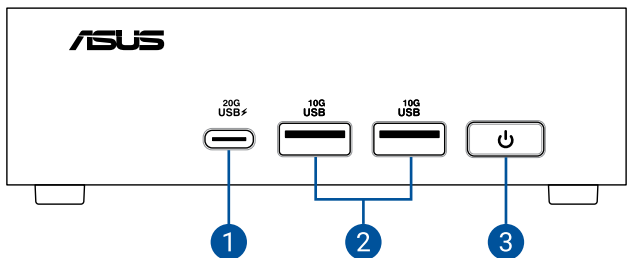
Package contents



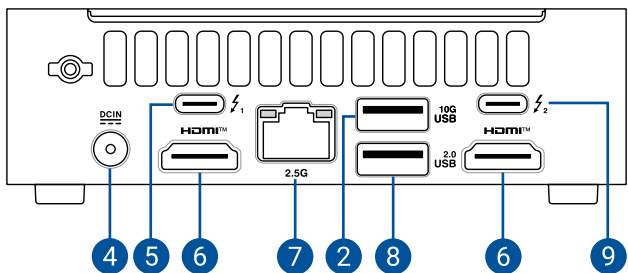
NOTE:

- 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 (NUC15CRK)



Rear view (NUC15CRK)

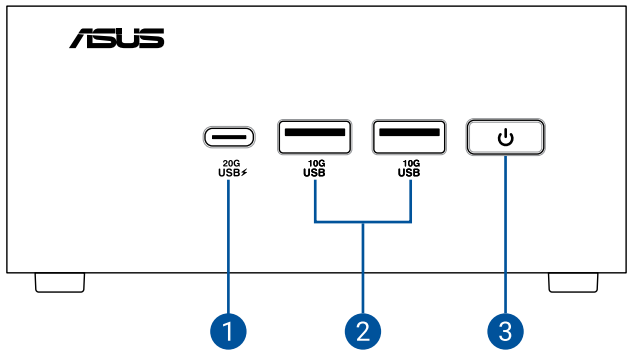


- | | | | |
|---|--|---|--|
| 1 | 20G USB Type-C® port | 6 | HDMI™ HDMI™ port |
| 2 | 10G USB USB 10Gbps port | 7 | 2.5G LAN Port |
| 3 | Power button | 8 | 2.0 USB USB 2.0 port |
| 4 | DCIN Power input | 9 | Thunderbolt™ 4 Type-C® port 2 with DisplayPort 2.1 |
| 5 | Thunderbolt™ 4 Type-C® port 1 with DisplayPort 2.1 | | |

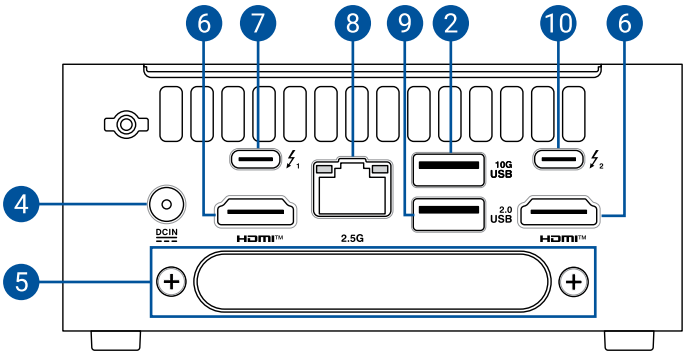
NOTE: Type-C® port power profiles:

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

Front view (NUC15CRH)



Rear view (NUC15CRH)

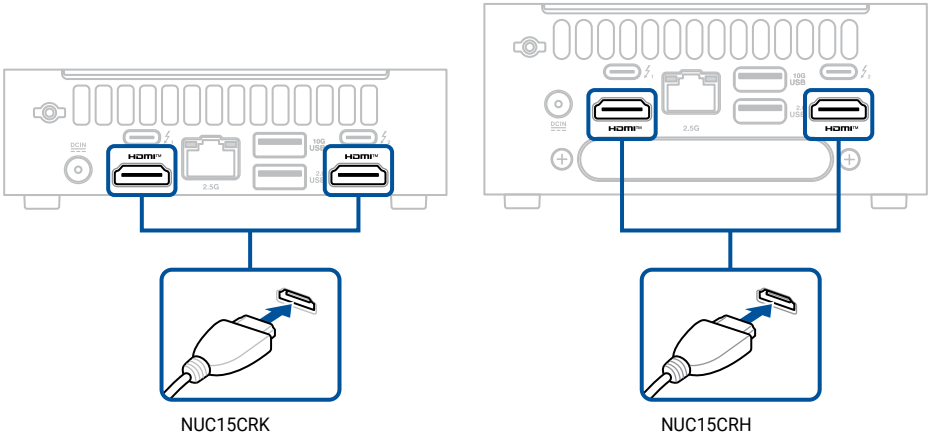


- | | | | |
|---|-------------------------|----|--|
| 1 | USB 20Gbps Type-C® port | 6 | HDMI™ HDMI™ port |
| 2 | USB 10Gbps port | 7 | Thunderbolt™ 4 Type-C® port 1 with DisplayPort 2.1 |
| 3 | Power button | 8 | 2.5G LAN Port |
| 4 | Power input | 9 | USB 2.0 port |
| 5 | Back panel faceplate | 10 | Thunderbolt™ 4 Type-C® port 2 with DisplayPort 2.1 |

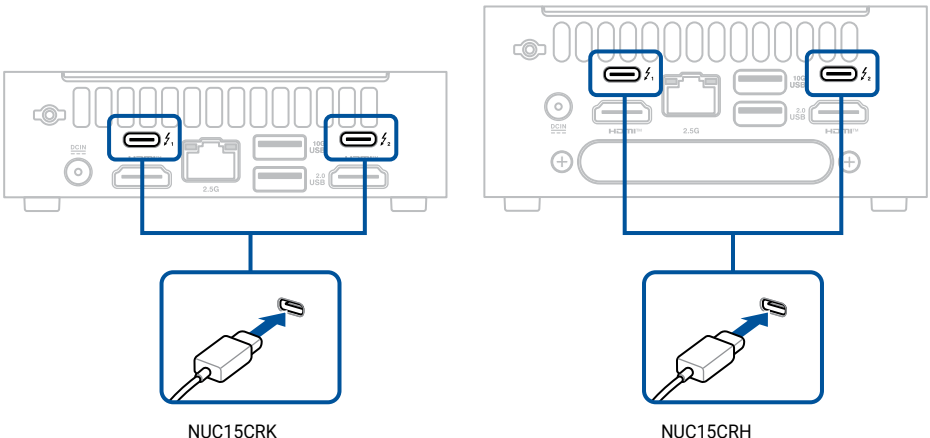
NUC Mini PC setup guide

Connecting the display

HDMI™ port



Type-C® DisplayPort



Display resolution table:

Single Display

	HDMI 1	Type-C® TBT/ DP 1	Type-C® TBT/ DP 2	HDMI 2
HDMI 1 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	-	-
Type-C® TBT/DP 1	-	5K (5120 x 3200 @60Hz)	-	-
Type-C® TBT/DP 2	-	-	5K (5120 x 3200 @60Hz)	-
HDMI 2(2.1 TMDS)	-		-	4K (3840 x 2160 @60Hz)
Both Type-C® TBT/DP 1 & 2	-	8K (7680 x 4320 @60Hz)		

Dual Displays

	HDMI 1	Type-C® TBT/ DP 1	Type-C® TBT/ DP 2	HDMI 2
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 1	4K (3840 x 2160 @60Hz)	5K (5120 x 3200 @60Hz)	-	-
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 2	4K (3840 x 2160 @60Hz)	-	5K (5120 x 3200 @60Hz)	-
HDMI 1 (2.1 TMDS) + HDMI 2(2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	-	4K (3840 x 2160 @60Hz)
Type-C® TBT/DP 1 + Type-C® TBT/DP 2	-	5K (5120 x 3200 @60Hz)	5K (5120 x 3200 @60Hz)	-
Type-C® TBT/DP 1 + HDMI 2 (2.1 TMDS)		5K (5120 x 3200 @60Hz)	-	4K (3840 x 2160 @60Hz)
Type-C® TBT/DP 2 + HDMI 2 (2.1 TMDS)	-	5K (5120 x 3200 @60Hz)	-	4K (3840 x 2160 @60Hz)

Triple Displays

	HDMI 1	Type-C® TBT/ DP 1	Type-C® TBT/ DP 2	HDMI 2
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 1 + Type-C® TBT/DP 2	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	-
HDMI 2 (2.1 TMDS) + Type-C® TBT/DP 1 + Type-C® TBT/DP 2	-	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 1 + HDMI 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	5K (5120 x 3200 @60Hz)	-	4K (3840 x 2160 @60Hz)
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 2 + HDMI 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	5K (5120 x 3200 @60Hz)	4K (3840 x 2160 @60Hz)

Quad Displays

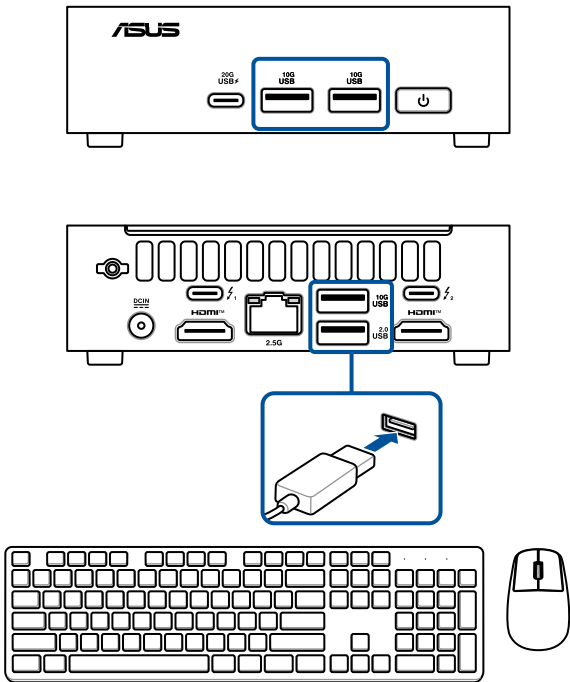
	HDMI 1	Type-C® TBT/ DP 1	Type-C® TBT/ DP 2	HDMI 2
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 1 + Type-C® TBT/DP 2 + HDMI 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)

Daisy Chain Quad Displays

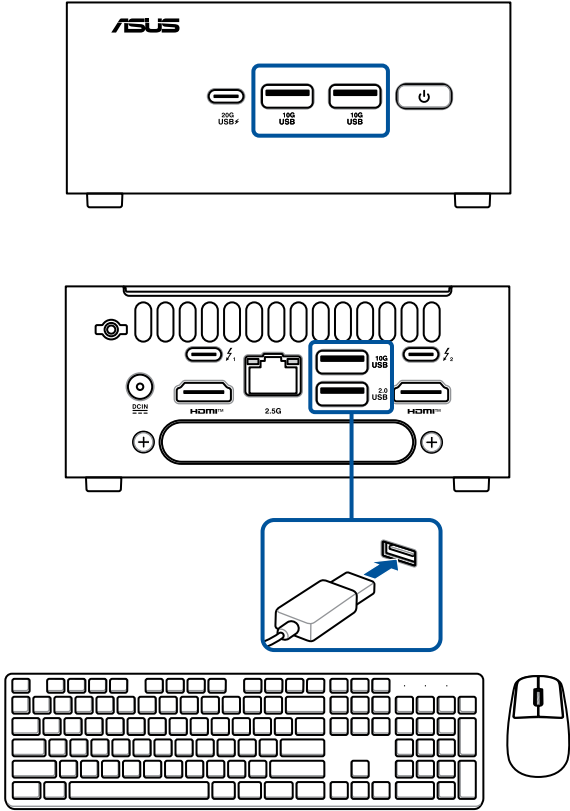
	HDMI 1	Type-C® TBT/ DP 1	Type-C® TBT/ DP 2	HDMI 2
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 1 (daisy chain) + HDMI 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	-	4K (3840 x 2160 @60Hz)
HDMI 1 (2.1 TMDS) + Type-C® TBT/DP 2 (daisy chain) + HDMI 2 (2.1 TMDS)	4K (3840 x 2160 @60Hz)	-	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz)
Type-C® TBT/DP 1 (daisy chain) + Type-C® TBT/DP 1(daisy chain)	-	-4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	4K (3840 x 2160 @60Hz) 4K (3840 x 2160 @60Hz)	-

Connecting the keyboard and mouse

NUC15CRK

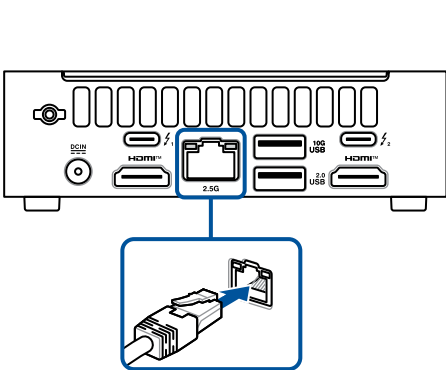


NUC15CRH

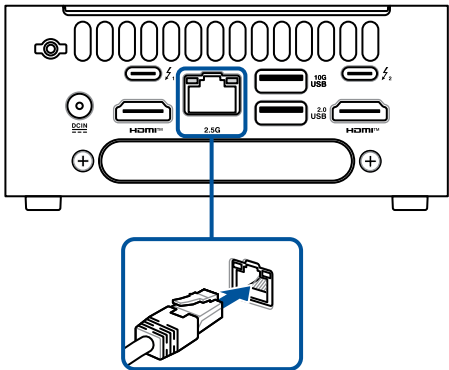


Connecting the LAN cable

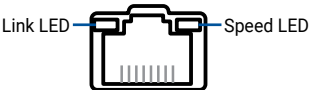
NUC15CRK



NUC15CRH



LAN port LED indications:

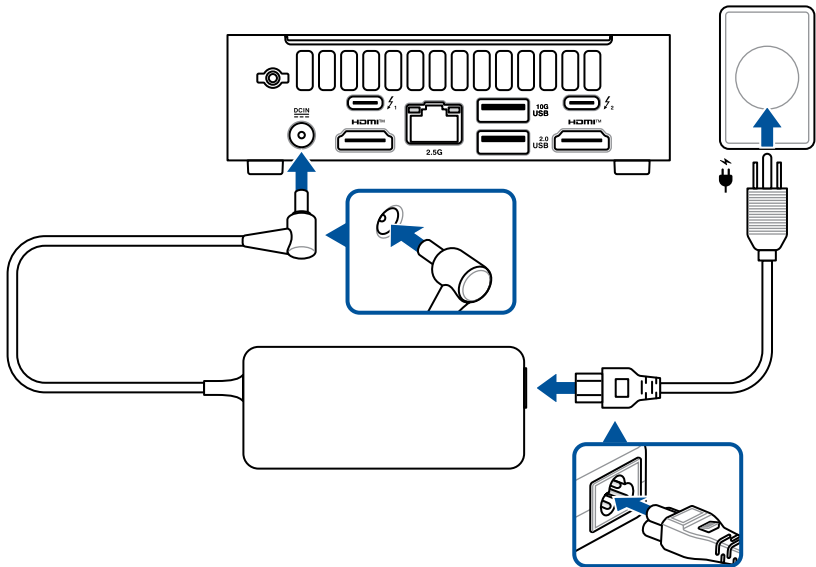


Link LED	
Status	Description
OFF	No link
GREEN	Linked
BLINKING	Data activity

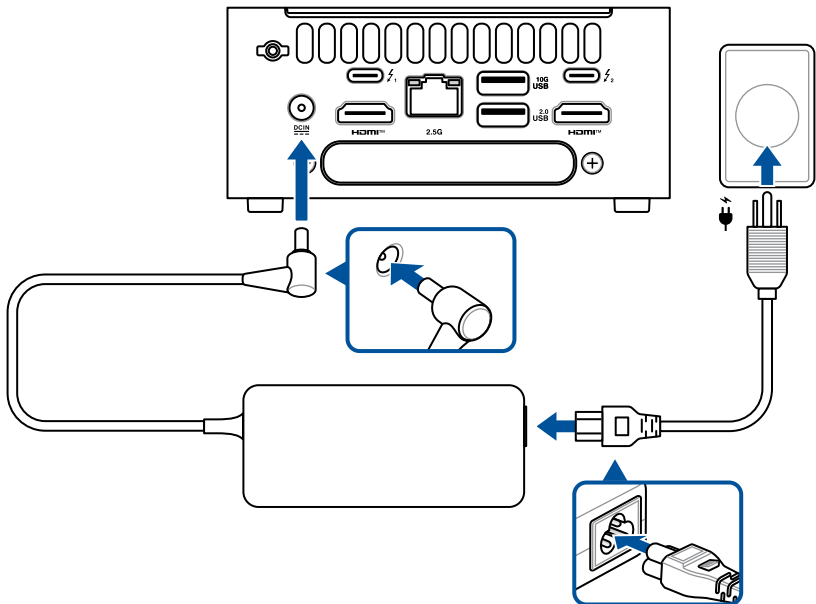
Speed LED	
Status	Description
OFF	100 Mbps / 10 Mbps connection
YELLOW	1 Gbps connection
GREEN	2.5 Gbps connection

Connecting the power adapter

NUC15CRK



NUC15CRH



NOTE: Please refer to the following for more information on the 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)

120W Power adapter

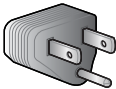
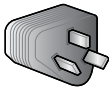
- Input voltage: 100-240 Vac
- Input frequency: 50-60 Hz
- Output current: 6.32A (120.0 W)
- Output voltage: 19 Vdc
- Rated for use between 0°C and 40°C (32°F and 104°F)

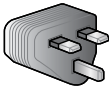
System (Core 3)

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

System (Core 5, Core Ultra 5, Core 7, Core Ultra 7)

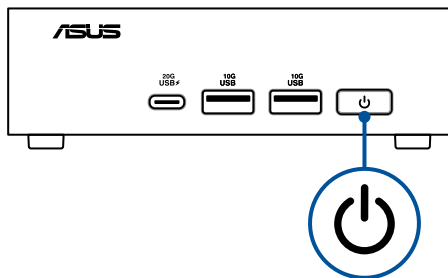
- Rated input current: 6.32A (120.0 W)
 - Rated input voltage: 19 Vdc
 - Operating temperature: 0°C to 40°C (32°F and 104°F)
-

Plug			
Code	US	CN	EU
Country	United States	China	European Union

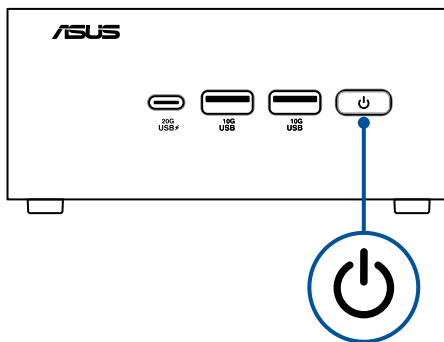
Plug			
Code	AU	UK	JP
Country	Australia	United Kingdom	Japan (Type-A)

Powering on the system

NUC15CRK



NUC15CRH



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:

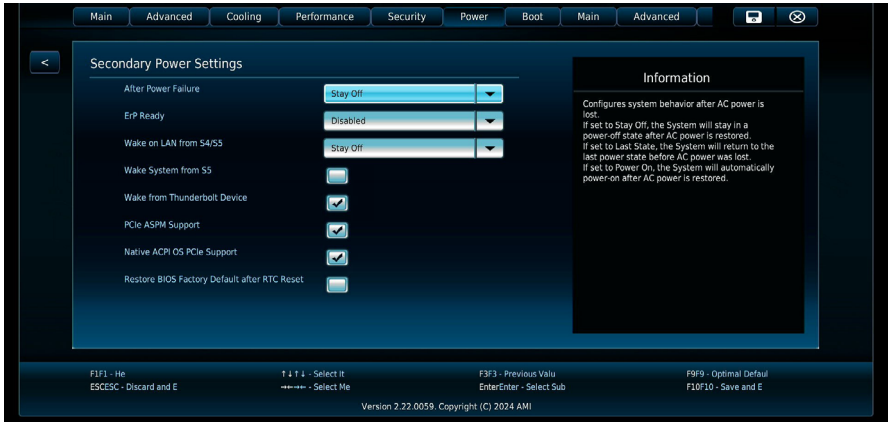
- Launch the Start menu, select the power icon then select **Sleep** to put your NUC system to sleep.
From the log-in screen, select the power icon then select **Sleep**.
- Press <alt> + <F4> to launch Shut Down Windows. Select **Sleep** from the drop-down list then select **OK**.

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 > Secondary Power Settings > 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!

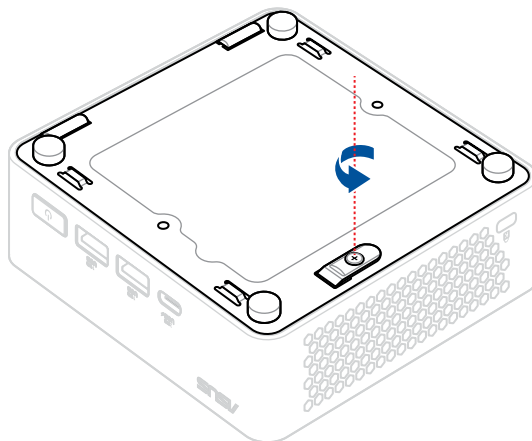
- Purchase replacement components from an authorized retailer of this NUC system to ensure maximum compatibility and reliability.
 - Refer to <https://www.asus.com> for a list of compatible components.
-

NOTE:

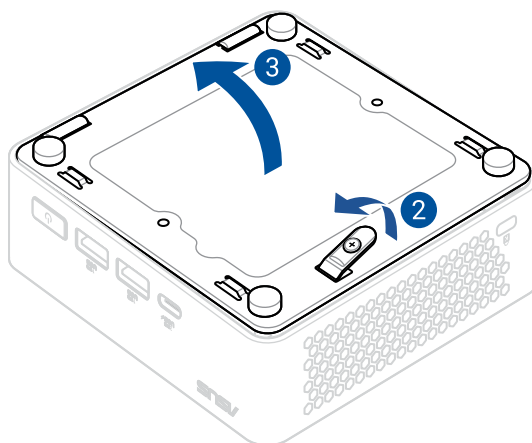
- The illustrations are for reference only.
 - Product and component images are for illustrative purposes only. The actual appearance and specifications may vary depending on the model.
 - Keep all adhesive tape, insulating materials, screws, and other removable items in a safe place until the service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

Opening system

1. Completely loosen the latch lock screw.



2. Lift the latch lock to unlock the bottom cover.
3. Lift and flip open the bottom cover.



DDR5 SODIMM/CSODIMM installation

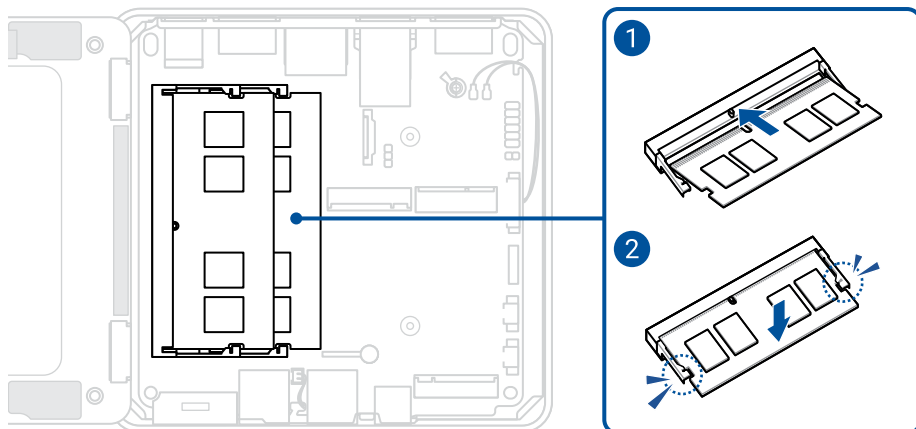
To install memory, be sure to select memory modules that meet these requirements:

- 1.1V low voltage memory
- DDR5 5200/5600 MHz SODIMMs
- DDR5 6400 MHz CSODIMMs
- Non-ECC
- Up to 96 GB of system memory with two SODIMMs or two CSODIMMs using 48 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 SODIMM/CSODIMM with the key on the SODIMM slot, then insert the DDR5 SODIMM/CSODIMM into the SODIMM slot.
2. Push the DDR5 SODIMM/CSODIMM down until the retaining clips clicks into place.



M.2 installation

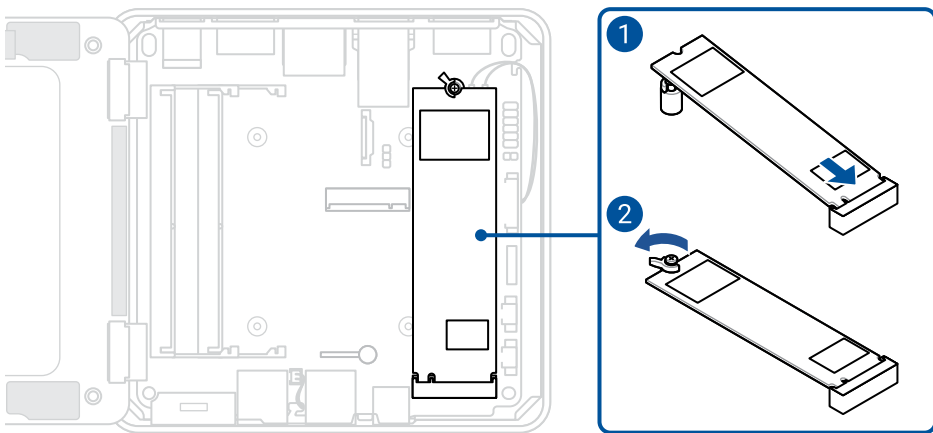
This system supports the following:

- One M.2 PCIe Gen5x4 connector supporting M.2 22x80 (key type M) for NVMe SSD.
- One M.2 PCIe Gen4x4 connector supporting M.2 22x42 (key type M) for NVMe SSD.
- One optional M.2 PCIe Gen5x4 connector expansion supporting M.2 22x80 (key type M) for NVMe SSD. (purchased separately, only for NUC15CRH models)

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

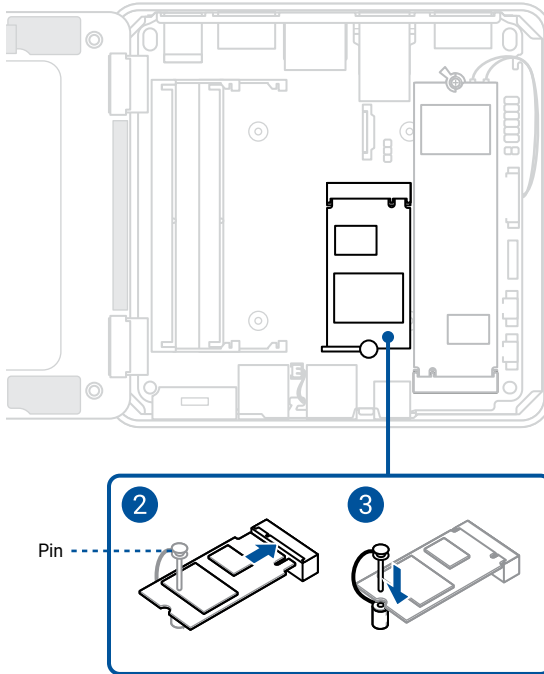
2280 M.2

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.



2242 M.2

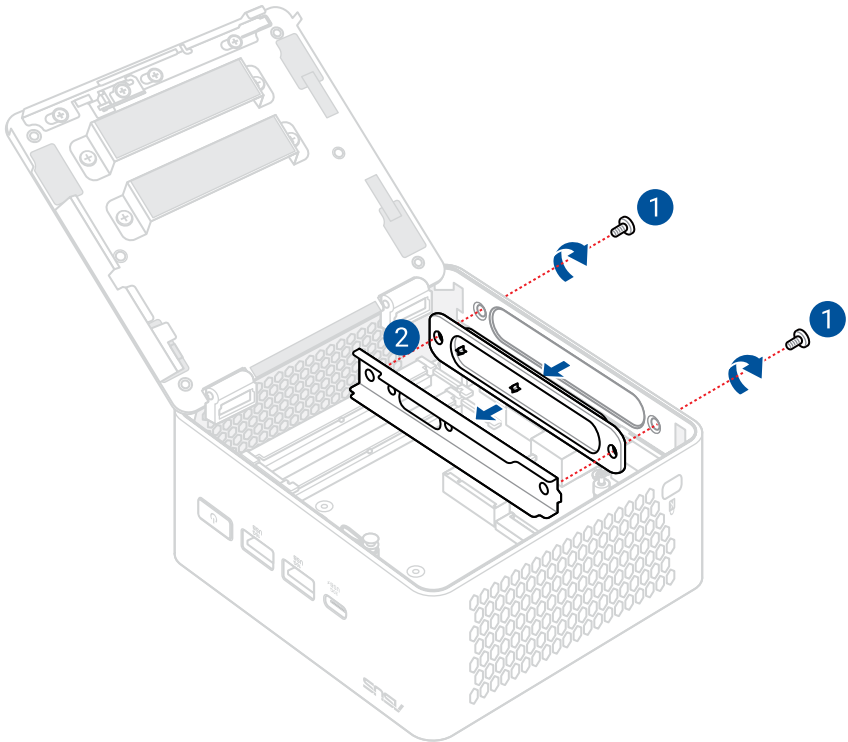
1. Pull the pin of the M.2 anchor upwards so that the pin is completely pulled out.
2. Align and insert the M.2 module.
3. Gently push the M.2 module down on top of the M.2 anchor, and secure it by pushing the pin of the M.2 anchor into the hole.



Optional 2280 M.2 expansion (only for NUC15CRH)

NOTE: The module for optional 2280 M.2 is purchased separately.

1. Remove the two (2) screws securing the back panel faceplate.
2. Remove the back panel faceplate and separate the black plastic faceplate from the metal bracket.

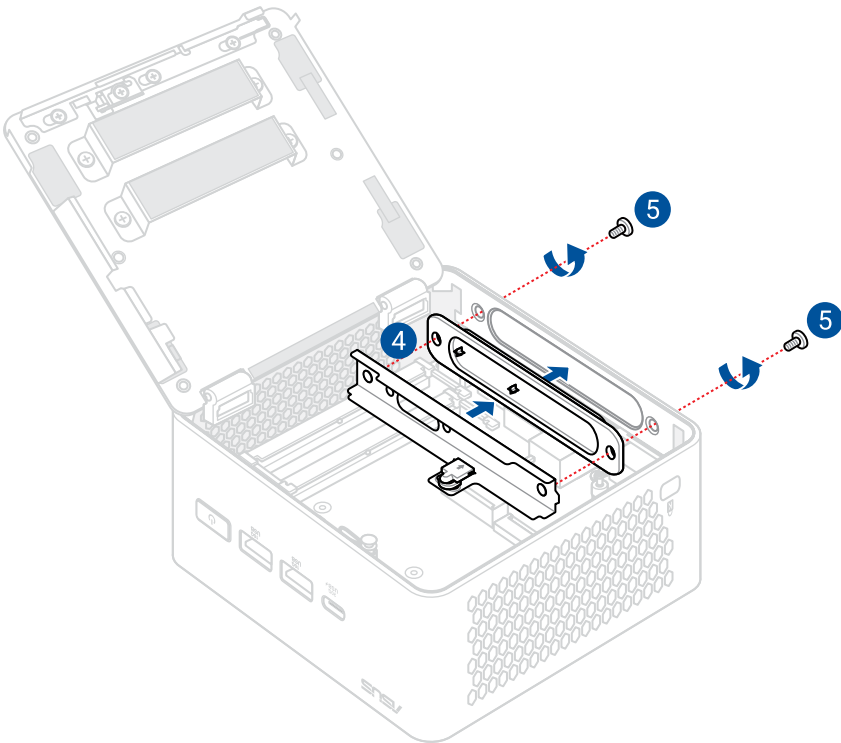


3. Prepare the M.2 expansion metal bracket.
4. Align and insert the cross protrusions on the plastic faceplate removed in step 2 into the M.2 expansion metal bracket.

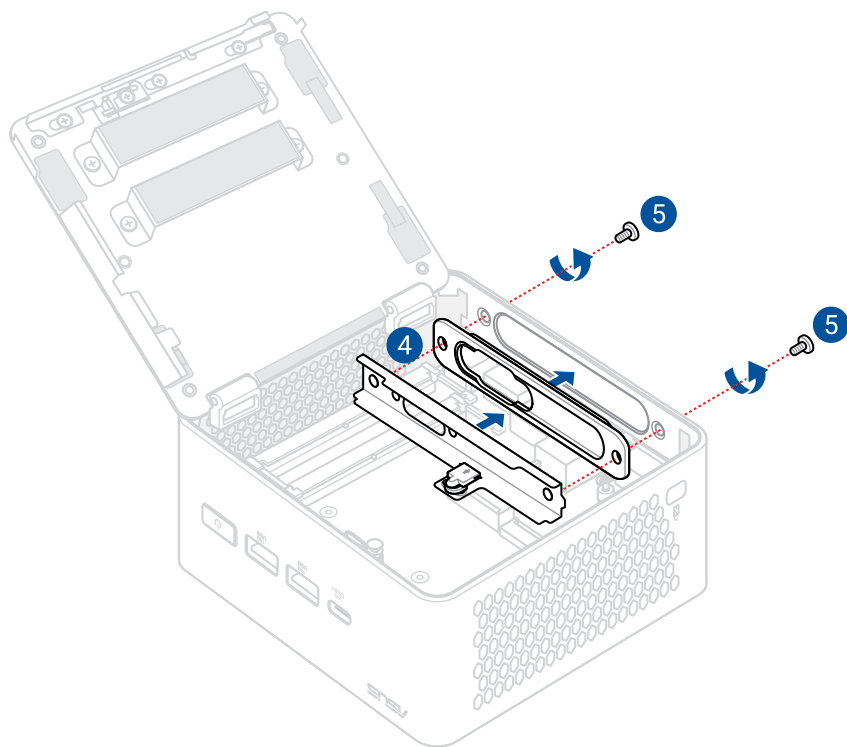
NOTE: An additional plastic faceplate with COM port opening is bundled, if you wish to install a COM port, please replace the default plastic faceplate with the bundled faceplate with COM port opening.

5. Secure the M.2 expansion metal bracket and plastic faceplate combo to the chassis using two (2) screws.

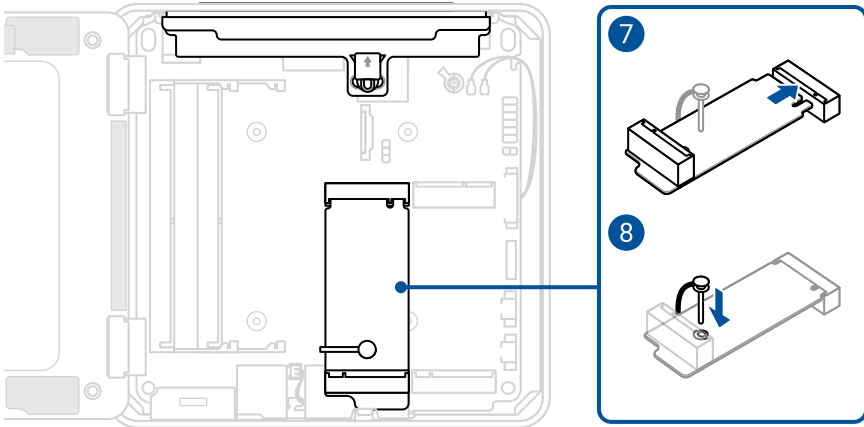
M.2 expansion metal bracket and default plastic faceplate



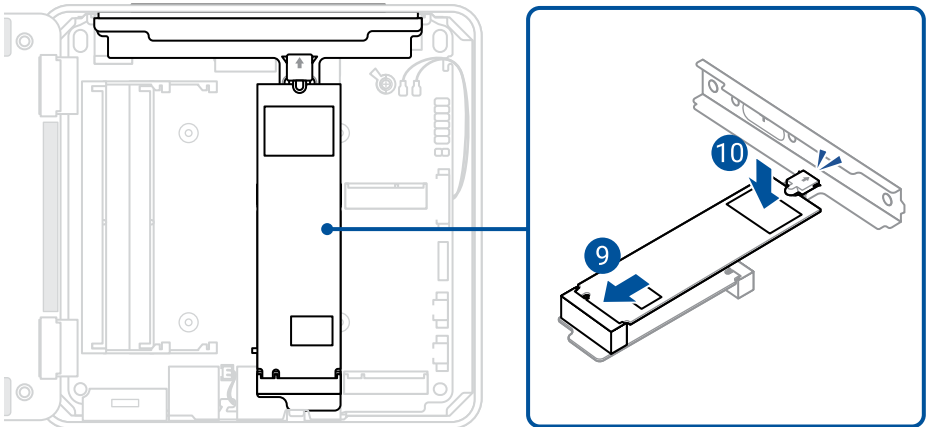
M.2 expansion metal bracket and plastic faceplate with COM port opening



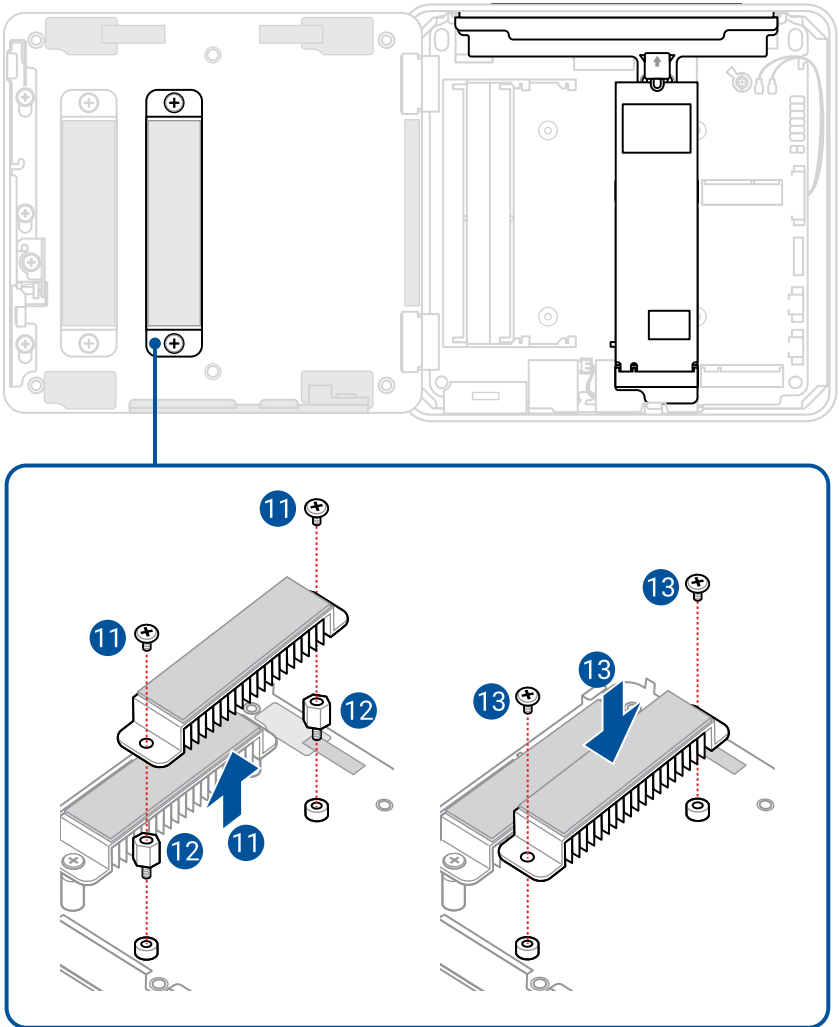
6. Pull the pin of the M.2 anchor upwards so that the pin is completely pulled out.
7. Insert the M.2 expansion board into the M.2 slot.
8. Gently push the M.2 expansion board down on top of the M.2 anchor, and secure it by pushing the pin of the M.2 anchor into the hole.



9. Insert the M.2 module into the M.2 slot on the M.2 expansion board.
10. Gently push the M.2 module down until the lock mechanism on the M.2 expansion metal bracket clicks and locks the M.2 module in place.



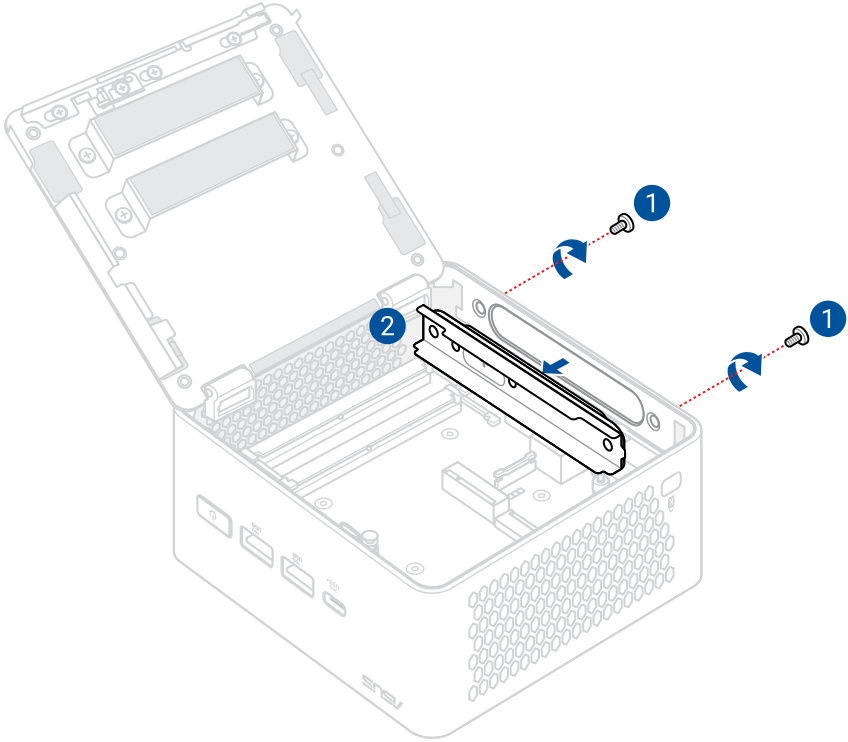
11. Remove the screws from the M.2 heatsink, then lift and remove the heatsink.
12. Remove the two (2) M.2 heatsink stand screws.
13. Replace the M.2 heatsink.



Optional LAN expansion (only for NUC15CRH)

NOTE: The module for optional LAN expansion is purchased separately.

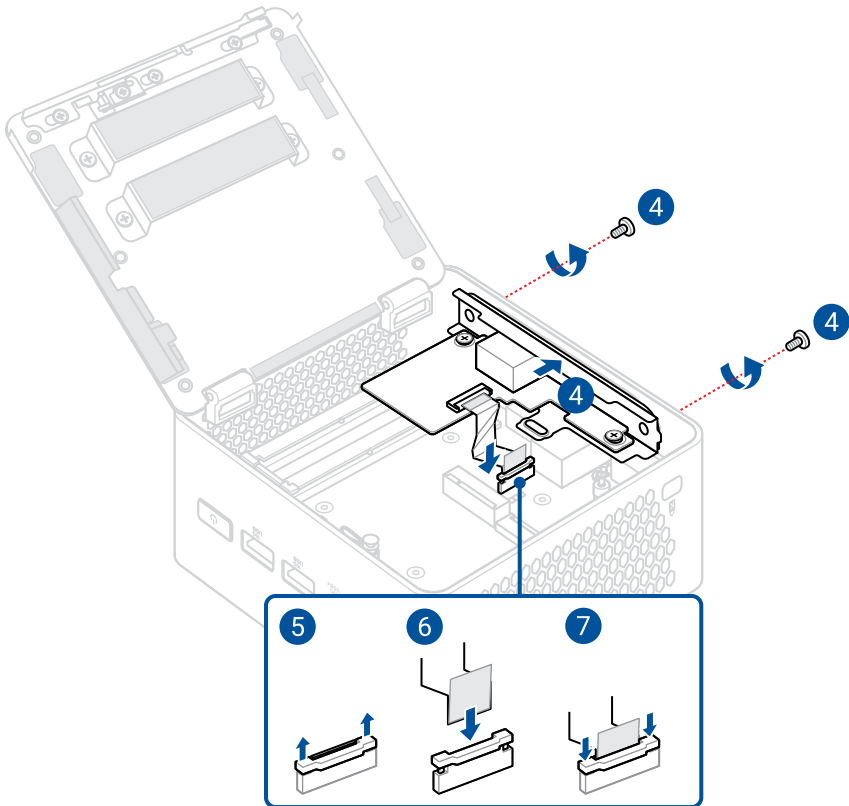
1. Remove the two (2) screws securing the back panel faceplate.
2. Remove the back panel faceplate.



3. Prepare the LAN expansion module.
4. Secure the LAN expansion module to the chassis using two (2) screws.
5. Pull the latch on the flexible flat cable (FFC) connector up.
6. Install the FFC into the FFC connector.

WARNING! Ensure the FFC is connected in the correct orientation with the gold fingers facing away from the FFC connector latch.

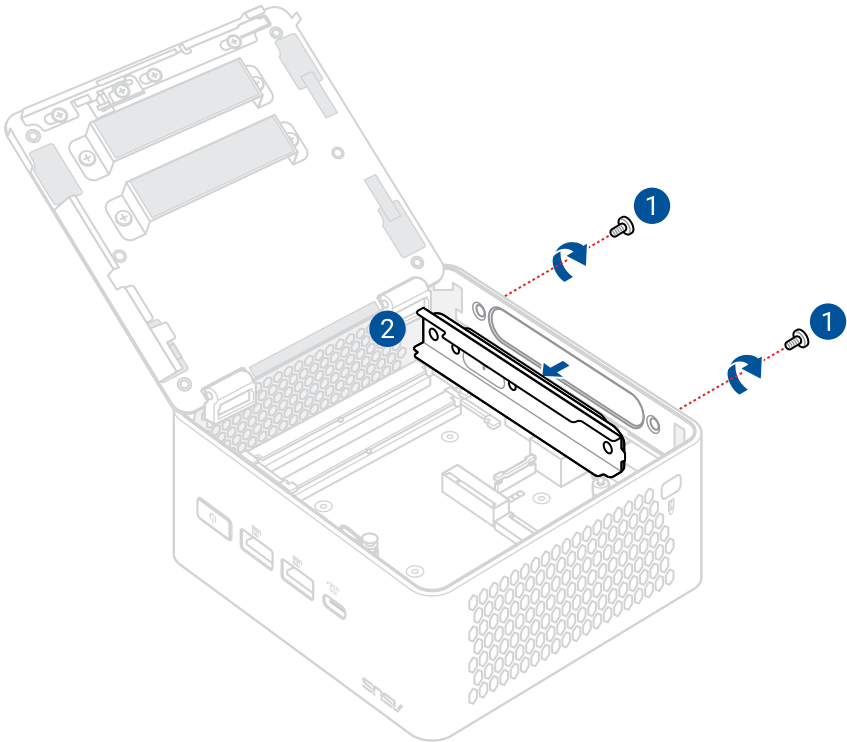
7. Push the latch down to secure the FFC in place.



Optional LAN and COM expansion (only for NUC15CRH)

NOTE: The module for optional LAN and COM expansion is purchased separately.

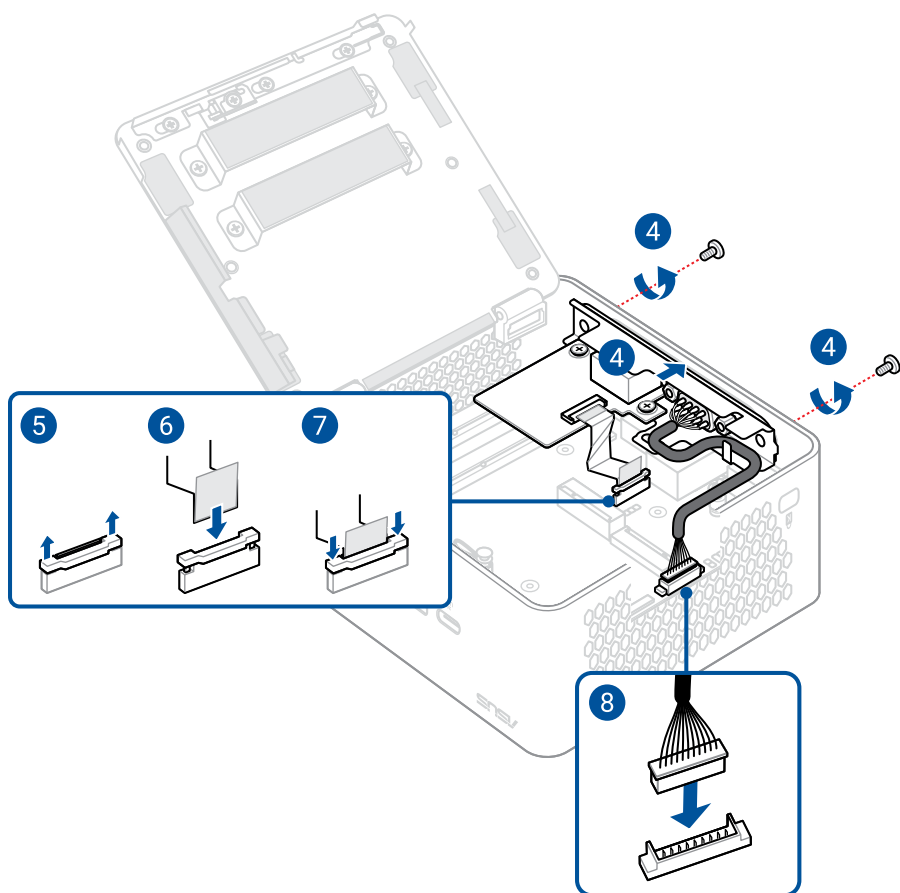
1. Remove the two (2) screws securing the back panel faceplate.
2. Remove the back panel faceplate.



3. Prepare the LAN and COM expansion module.
4. Secure the LAN and COM expansion module to the chassis using two (2) screws.
5. Pull the latch on the flexible flat cable (FFC) connector up.
6. Install the FFC into the FFC connector.
7. Push the latch down to secure the FFC in place.

WARNING! Ensure the FFC is connected in the correct orientation with the gold fingers facing away from the FFC connector latch.

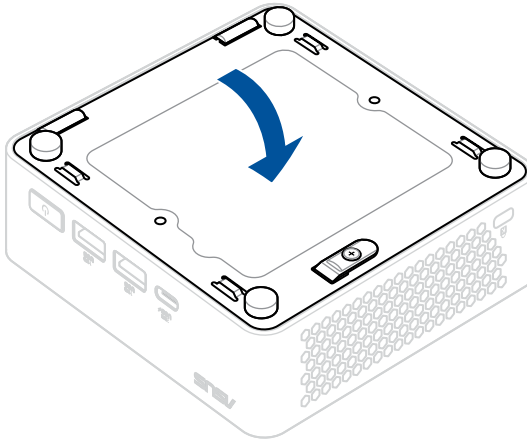
7. Push the latch down to secure the FFC in place.
8. Connect the COM port cable to the COM port connector on the motherboard.



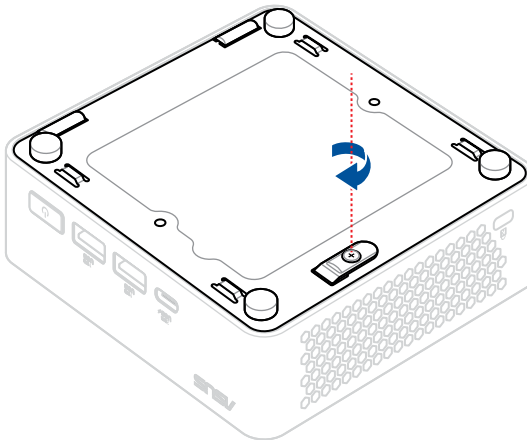
Closing system

1. 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.

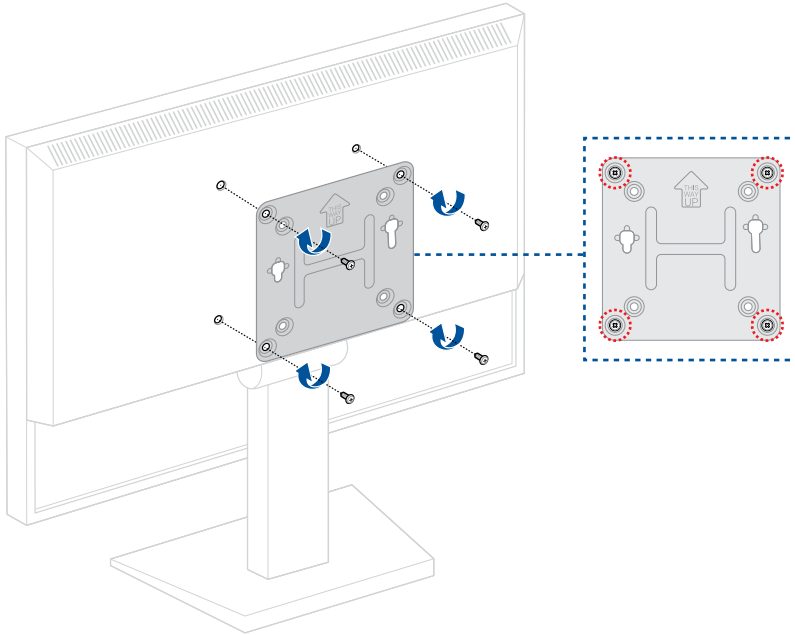


2. Secure the bottom cover by tightening the latch lock screw.

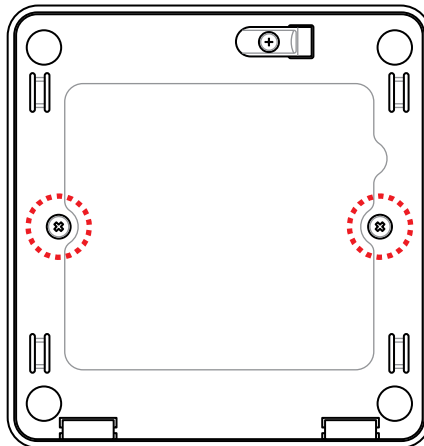


VESA mount installation

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.

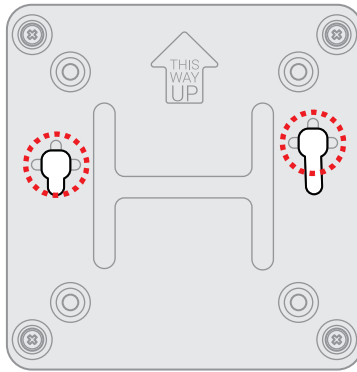


2. Attach the two (2) bundled slightly larger black screws to the bottom chassis cover of the NUC system.



- 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.



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

