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ASUS PN64-E1 Desktop Computer User Guide

Contents

ASUS PN64-E1 Desktop Computer

Product Information

The ASUS Mini PC PN64-E1 Series is a compact desktop PC designed for various computing needs. It comes with a range of features and connectivity options to enhance your computing experience.

Package Contents

- ASUS Mini PC PN64-E1 Series
- Quick Start Guide

Features

Front view: The front of the Mini PC features a drive activity indicator that lights up when the internal storage drive is being accessed.

Rear view: The rear of the Mini PC has air vents that allow cooler air to enter the chassis for optimal heat dissipation and air ventilation.

Right view: The right side of the Mini PC is equipped with HDMI ports. One HDMI port supports a 4K device for viewing on a larger external display, while the other HDMI port supports CEC (Consumer Electronics Control) for controlling compatible devices with a remote control.

Air vents (exhaust vent): The Mini PC chassis has air vents at the back to expel hot air out for efficient heat dissipation and air ventilation.

Configurable port: Depending on the model, the Mini PC may have additional connectivity options, such as an HDMI port that supports an 8K device or a DisplayPort for connecting to an external display.

Product Usage Instructions

Air Vent Maintenance
To ensure optimal heat dissipation and air ventilation, it is important to keep the air vents free from obstructions. Regularly check and remove any dust or debris that may accumulate on the vents.

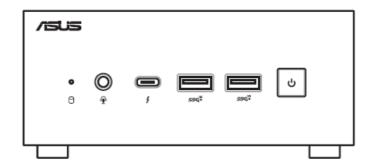### Connecting to an External Display

HDMI Port: Connect an HDMI cable from the Mini PC's HDMI port to the HDMI input of your external display (e.g.,

LCD TV or monitor). This allows you to view the Mini PC's content on a larger screen. The left HDMI port also supports CEC for remote control functionality. Make sure the connected device's HDMI-CEC is enabled. The resolution supported by the HDMI port is up to 3840 x 2160 @60Hz, but it may vary depending on the cabling and output device.
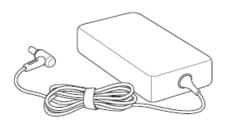
Configurable Port: If your Mini PC model has an additional HDMI port or a DisplayPort, you can connect it to an external display using the appropriate cable. The resolution supported by the HDMI port is up to 7680 x 4320 @30Hz, while the DisplayPort supports a resolution of up to 5120 x 2880 @60Hz. Please note that the actual resolution may be affected by the cabling and output device.

For further assistance or if you encounter any issues with your ASUS Mini PC PN64-E1 Series, refer to the provided Quick Start Guide or contact ASUS Service Center for warranty card replacement or technical support.

Package contents

ASUS Mini PC PN Series / ASUS Mini PC PN 系列 / ASUS Mini PC PN Serie

AC power adapter* / 电源适配器* /
Adaptador de alimentación de CA*

Power cord* / 电源线* / Cable de alimentación*

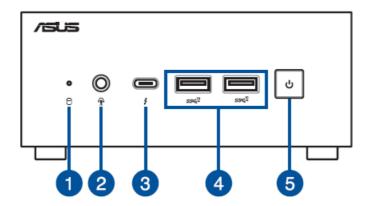Technical documentations / 技术文件 /
Documentación técnica

NOTE:

- Froduct and accessory images are for lustrative purposes only. the actual appearance and specincations may vary depending on the model.

"The bundled power adapter may vary by model and territory.

- Some bundled accessories may vary by model. For details on these accessories, refer to their respective user manuals.
- The device illustration is for reference only. Actual product specifications may vary by model.
- If the device or its components fail or malfunction during normal and proper use within the warrant) period, bring the warranty card to the ASUS Service Center for replacement of the defective

Features

Front view

1. ⊟ **Drive activity indicator**

   This indicator lights up when your Mini PC is accessing the internal storage drive.

   681733Xam

2. 🎧 **Headphone/Headset/Microphone jack (optional)**

   This port allows you to connect amplified speakers or headphones. You can also use this port to connect your headset or an external microphone.

   20 0W58•

   Conector de auriculares, auriculares con micrófono y micrófono(opcional)

3. ⚡ **Thunderbolt*'' 4 port**

   This Thunderbolt* 4 port provides the following:

   - Transfer rate of up to 40 Gbit/s for Thunderbolt* 4 devices.
   - DisplayPort 1.4 support (5120 x 2880 @60H2).
   - Backward compatible to USB 3.2.

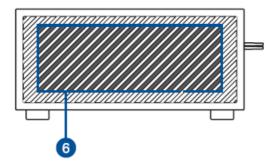   USB power delivery with a maximum of 5 V/3 A output.

4. **SS←10 USB 3.2 Gen 2 port**

   The USB 3.2 Gen 2 (Universal Serial Bus) port provides a transfer rate up to 10 Gbit/s.

5. ⏻ **Power button**

   The power button allows you to turn the Mini PC on or off. You can use the power button to put your Mini PC to sleep mode or press it for four (4) seconds to force shutdown your Mini PC.
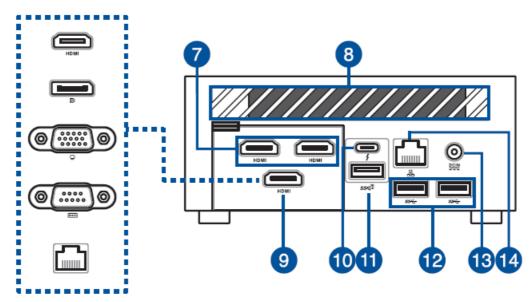
6. **Air vents (intake vent)**

The air vents allow cooler air to enter your Mini PC chassis.

IMPORTANT: For optimum heat dissipation and air ventilation, ensure that the air vents are free from obstructions.

Rear view

7. **HDMI HDMI port**

The HDMI (High Definition Multimedia Interface) port supports a 4K device, such as an LCD TV or monitor, to allow viewing on a larger external display

NOTE:

The left HDMI port supports CEC (Consumer Electronics Control). Connect any CEC compatible device that you want to control with a remote control to this port, and make sure that the device's HDMI-CEC is enabled. When using only this port as a display output source, this port will support a resolution of up to 3840 x 2160 @60Hz. The resolution may also be affected by the cabling and output device.

8. **Air vents (exhaust vent)**

The air vents allow your Mini PC chassis to expel hot air out.

IMPORTANT: For optimum heat dissipation and air ventilation, ensure that the air vents are free from obstructions.

9. **Congurable port**

This port varies between models and consists of the following port options:

- **HDMI HDMI port**

  The HDMI (High Definition Multimedia Interface) port supports an 8K device, such as an LCD TV or monitor, to allow viewing on a larger external display.

  NOTE: When using only this port as a display output source, this port will support a resolution of up to 7680 x 4320 @30Hz. The resolution may also be affected by the cabling and output device.

- ▷ **DisplayPort**

  This port allows you to connect your Mini PC to an external display.

  NOTE: When using only this port as a display output source, this port will support a resolution of up to 5120 x 2880 @60Hz. The resolution may also be aected by the cabling and output device.

- 🖵 **VGA port**

  This port allows you to connect your Mini PC to an external display.

  NOTE: When using only this port as a display output source, this port will support a resolution of up to 1920 x 1200 @60Hz. The resolution may also be affected by the cabling and output device.

- 10101 **Serial (COM) connector**

  The 9-pin serial (COM) connector allows you to connect devices that have serial ports such as mouse, modem, or printers.

- 🔳 **LAN port**

  The 8-pin RJ-45 LAN port supports a standard Ethernet cable for 10/100/1000/2500Mbps connection to a local network.

10. ⚡ **Thunderbolt™ 4 with Power Delivery input port**

    This Thunderbolt™ 4 port provides the following:

    - Transfer rate of up to 40 Gbit/s for Thunderbolt™ 4 devices.
    - DisplayPort 1.4 support (5120 x 2880 @60Hz).
    - Backward compatible to USB 3.2.
    - USB power delivery with a maximum of 5 V / 3 A output.
    - Support for power (DC) input when connected to an external device that is PD (Power Delivery) compliant with a 20 V / 5 A output.

      CAUTION!

    - DO NOT connect your Mini PC to a device that supports less than 20 V / 5 A PD when using the Thunderbolt™ 4 port as a power (DC) input port. Doing so may cause problems when powering on your Mini PC.
    - Always disconnect the charging cable from the power (DC) input port before using the Thunderbolt™ 4 port for power input.
    - Make sure to power off your device when switching between the Thunderbolt™ 4 and power input ports.

11. SS⟵10 **USB 3.2 Gen 2 port**

    The USB 3.2 Gen 2 (Universal Serial Bus) port provides a transfer rate up to 10 Gbit/s.

12. SS⟵ **Puerto USB 3.2 Gen 1**

    The USB 3.2 Gen 1 (Universal Serial Bus) port provides a transfer rate up to 5 Gbit/s.

13. DCIN ▬▬▬ **Power input**

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

WARNING! The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.
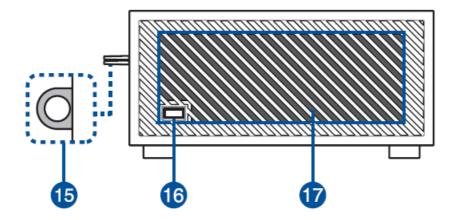
NOTE: Please refer to the following information on the power adapter:

- 120 W Power adapter: +20 Vdc 6 A, 120 W
- 120 W Power adapter: +19 Vdc 6.32 A, 120 W

14. **LAN port**

The 8-pin RJ-45 LAN port supports a standard Ethernet cable for 10/100/1000/2500Mbps connection to a local network.

Left view

15. **Padlock ring**

This ring allows you to attach a standard padlock to prevent unauthorized disassembly of your Mini PC.

NOTE: The padlock is purchased separately.

16. **Kensington® security slot**

The Kensington® security slot allows you to secure your Mini PC using Kensington® security products.
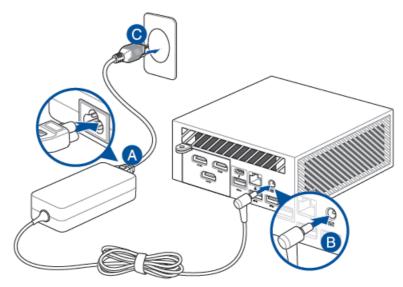
17. **Air vents (intake vent)**

The air vents allow cooler air to enter your Mini PC chassis.

IMPORTANT: For an optimum heat dissipation and air ventilation, ensure that the air vents are free from obstructions.
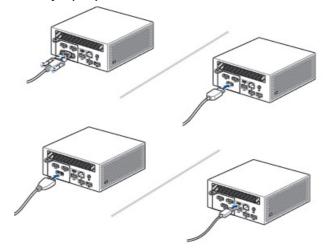
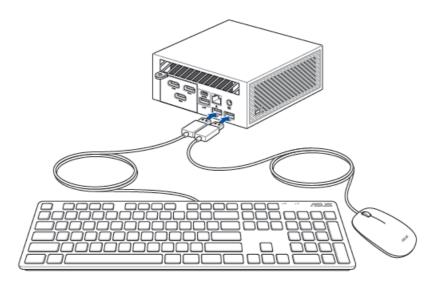## Getting started

1. Connect the power adapter and cord

2. Connect a display panel to your Mini PC by connecting a display cable to the VGA, HDMI, DisplayPort, or
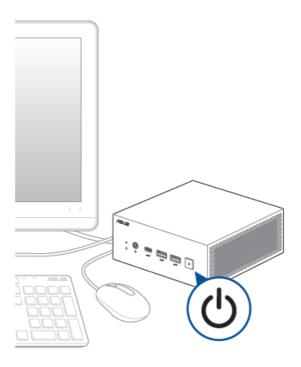
Thunderbolt™ 4 with Power Delivery input port.

NOTE:

- Up to five display panels may be connected, depending on model and selected options*. However, only a maximum of four can be displayed simultaneously.
- Using one of the ports listed below as the only display output source will provide the following maximum resolution**:
  - HDMI port

    Supports a resolution of up to 3840 x 2160 @60Hz.
  - Thunderbolt™ 4 port

    Supports a resolution of up to 5120 x 2880 @60Hz.
  - Configurable VGA port

    Supports a resolution of up to 1920 x 1200 @60Hz.
  - Configurable HDMI port

    Supports a resolution of up to 7680 x 4320 @30Hz.
  - Configurable DisplayPort port

    Supports a resolution of up to 5120 x 2880 @60Hz.

    The ports may vary depending on model. Refer to the Features section for the location of the ports.

    The maximum resolution may be affected by the cabling and output device.
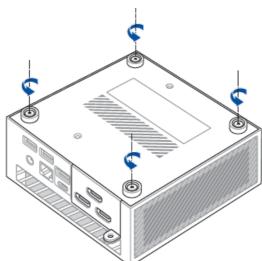
3. Connect the wired or wireless keyboard and mouse

4. Turn on your system
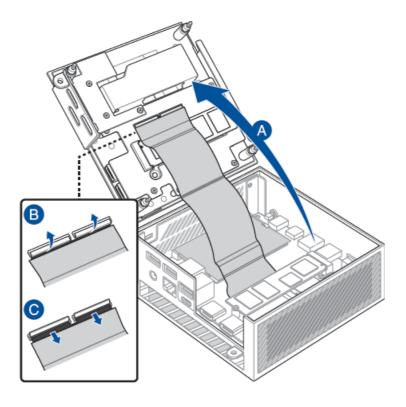
Upgrading your Mini PC

IMPORTANT!

- It is recommended that you install or upgrade the memory modules, wireless card, and solid state drive (SSD), under professional supervision. Visit an ASUS service center for further assistance.
- Ensure that your hands are dry before proceeding with the rest of the installation process. Before installing any of the features in this guide, use a grounded wrist strap or touch a safely grounded object or metal object to avoid damaging them due to static electricity.

Removing the bottom cover

1. Turn off your Mini PC then disconnect all cables and peripherals.
2. Place the Mini PC on a flat stable surface, with its top side facing down.
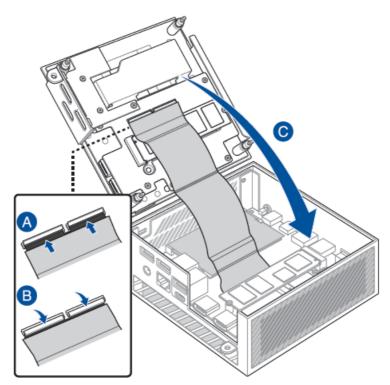3. Completely loosen the four (4) screws from the bottom cover.

4. Slowly and with extreme care, lift the bottom cover in the direction shown in the illustration (A), then flip the connector flaps open (B) and remove the cable (C).
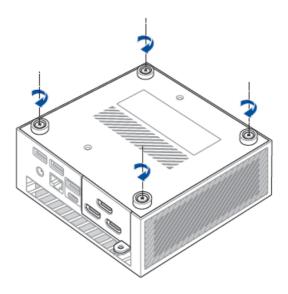
Replacing the bottom cover

1. Insert the cable into the connectors (A), then close the flaps to secure the cables (B). Close the bottom cover (C).

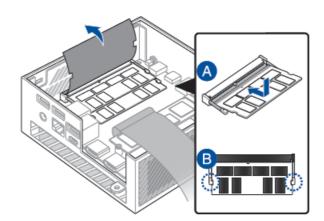2. Secure the bottom cover using the four (4) screws.

Installing memory modules

Your Mini PC comes with two SO-DIMM memory slots that allow you to install two DDR5 SO-DIMMs.

IMPORTANT! Refer to **http://www.asus.com** for the list of compatible DIMMs. You can only install DDR5 SO-DIMMs to the Mini PC's DIMM slots.
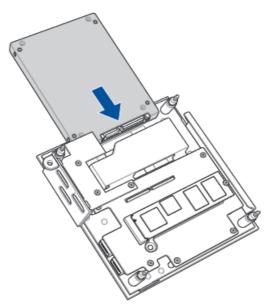
Align and insert the memory module into the slot (A) and press it down (B) until it is securely seated in place. Repeat the same steps to install the other memory module.
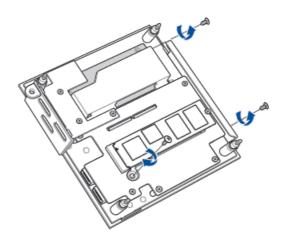
Installing 2.5" HDD or SSD

1. Prepare your 2.5" HDD or SSD, then align it with the storage bay on the bottom cover of your Mini PC.
2. Insert your HDD or SSD into the storage bay.

   IMPORTANT! This device only supports 7mm 2.5" HDD or SSD.
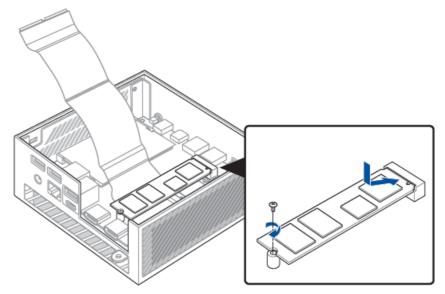
3. Secure the HDD or SSD with three (3) screws.

Installing an M.2 SSD

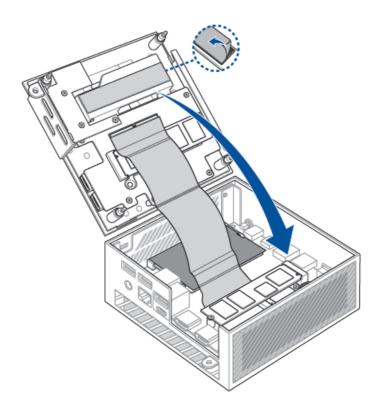Your Mini PC comes with two M.2 slots; one in the chassis and another on the bottom cover.

To install an M.2 into the chassis

1. Align and insert the 2280 M.2 SSD into its slot inside the Mini PC.
2. Gently push down the 2280 M.2 SSD on top of the screw hole and fasten it using one of the bundled 3mm round screws.

   NOTE: If you wish to install a Gen 4 SSD, ensure to install it to the M.2 slot in the chassis.

3. Before replacing the bottom cover, ensure to remove the plastic film on the thermal pad.

NOTE: The specifications for the thermal pad used in this Mini PC are as follows:
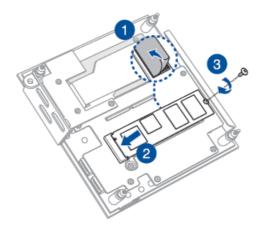
- Thickess: 2.0mm
- Size: 66mm x 20mm
- Thermal conductivity: 1.2 W/mK
- Hardness: < 50 Sc

To install an M.2 to the bottom cover

1. Remove the plastic film from the thermal pad.
2. Align and insert the 2280 M.2 SSD into its slot on the bottom cover.
3. Gently push down the 2280 M.2 SSD on top of the standoff and fasten it using a screw.

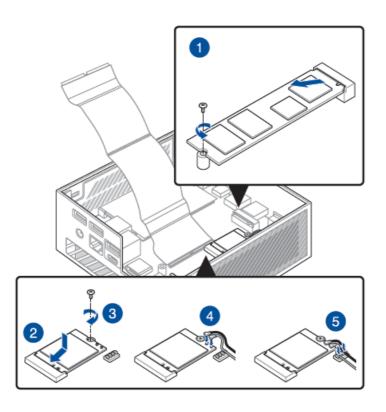**NOTE:** For thermal pad specications, refer to those listed in the To install an M.2 into the chassis section.

Installing the wireless card

NOTE: Your Mini PC includes a M.2 slot for 2230 wireless and Bluetooth modules. Refer to **http://www.asus.com** for the list of compatible wireless and Bluetooth modules.

1. (optional) Remove the M.2 SSD if an M.2 SSD is installed. To remove the M.2 SSD, remove the screw from the standoff, then remove the M.2 SSD.
2. Align and insert the wireless card into its slot inside the Mini PC, then gently push down the wireless card on top of the standoff.
3. Fasten the wireless card using a screw.
4. (optional) Connect the antennas to your wireless card.
5. (optional) Organize your antenna cables with the cable holder clips.
   NOTE:
   - Connecting antennas to your wireless card may strengthen the wireless signal.
   - A soft clicking sound indicates that the antenna has been securely attached on the wireless card.

FCC COMPLIANCE INFORMATION Per FCC Part 2 Section 2.1077

Responsible Party: Asus Computer International Address: 48720 Kato Rd, Fremont, CA 94538 Phone/Fax No: (510)739-3777/(510)608-4555 hereby declares that the product Product Name : Desktop PC Model Number : PN64-E1 compliance statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Documents / Resources

ASUS PN64-E1 Desktop Computer [pdf] User Guide
PN64-E1 Desktop Computer, PN64-E1, Desktop Computer, Computer

References

- **ASUS Global**
- **ASUS Global**
- **ASUS åŽç¡•**
- **User Manual**