Ascent QN10

QN10

User Guide

Regulatory Model: QN10

HIGH-DEFINITION MULTIMEDIA INTERFACE

E28056
First Edition
July 2026

Important information

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Table of Contents

Important information 2
Safety and caution information 6
Package contents 7
Front view 8
Rear view 8
Mini PC setup guide 9
- Connecting the display 9
- Connecting the keyboard and mouse 11
- Connecting the LAN cable 12
- Connecting the power adapter 13
- Powering on the system 15
- Managing power modes 17
- Enabling fast startup 19

Component integration guide 20

About this guide

This user guide includes information on the following SKUs:

- **Mini PC**
  (Memory and M.2 solid state drive already included in the Mini PC; Windows 11/11 Pro 64-bit Operating System included):
  Specifications and steps to set up your Mini PC.

Audience

This user guide is intended to provide basic setup information about the Mini PC 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:

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

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.

Other Common Notations

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 Mini PC Ascent QN10 Identification Information

Product Name	Ascent QN10
QN10	Mini PC

Where to find more information

Refer to the following source(s) 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.

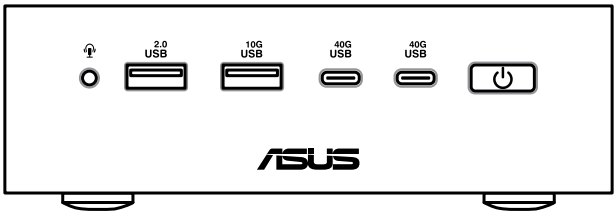
Safety and caution information

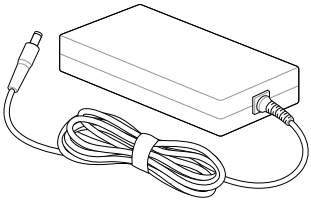
- Accessories that came with this product have been designed and verified for the use in connection with this product. Never use accessories from other products to prevent the risk of electric shock or fire.
- This device may interfere with the operation of some pacemakers, hearing aids or other medical devices. To reduce the risk, maintain a separation distance of 20 cm (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



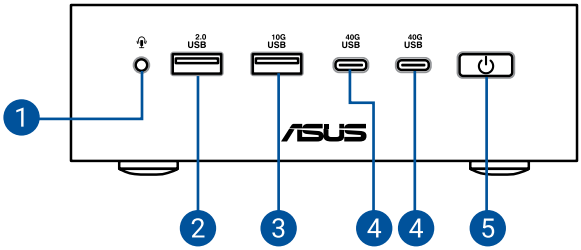




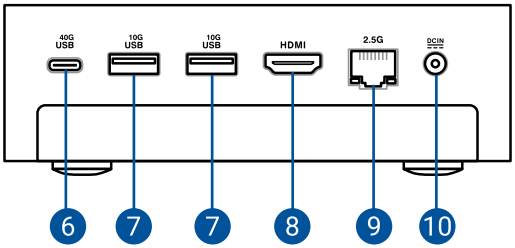
NOTE:

- 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.
- 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



Rear view

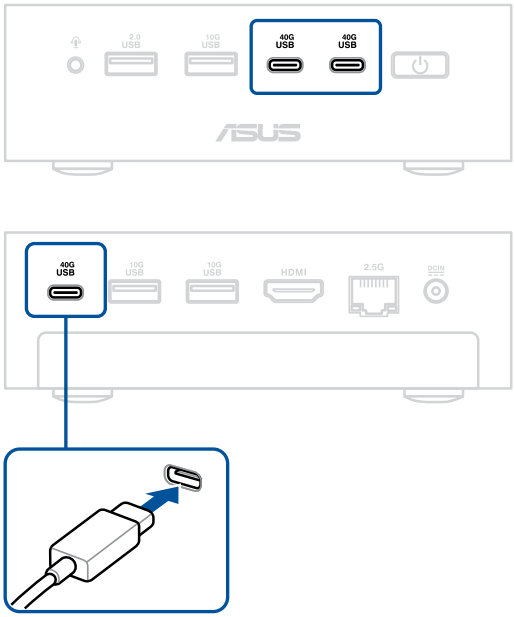


1. Headphone/Headset/Microphone jack
2. USB 2.0 Type-A port
3. USB 10Gbps Type-A port
4. USB 40Gbps Type-C® ports with DisplayPort
5. Power button
6. USB 40Gbps Type-C® port with DisplayPort
7. USB 10Gbps Type-A port
8. HDMI™ port
9. LAN port
10. Power input jack

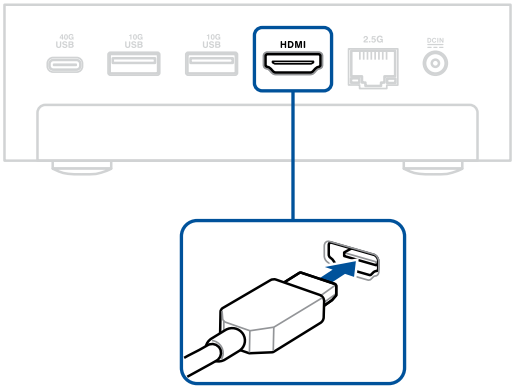
Mini PC setup guide

Connecting the display

USB Type-C® port



HDMI port



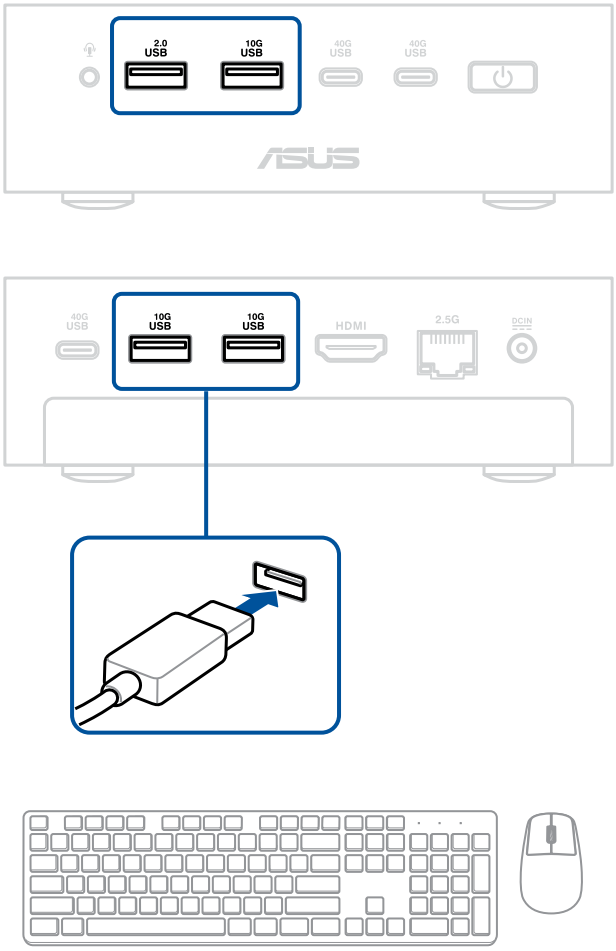
USB Type-C® specifications:

Port	Details	Specifications
USB 40Gbps	Type-C® output support	DP1.4 (HBR3)
	Power over Type-C®	15W (output)
	Power profile support	5V @ 3A (output)

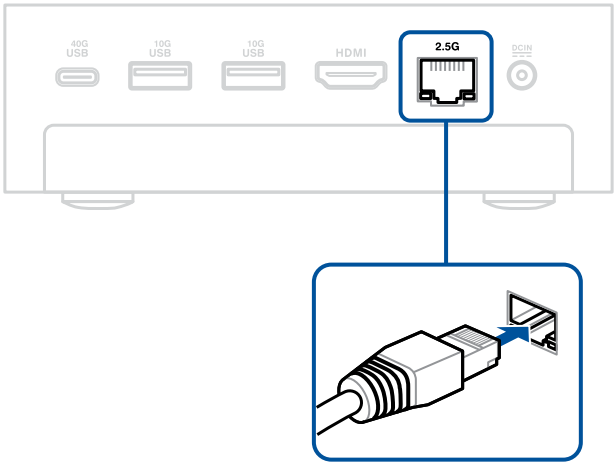
Display resolution table:

Port	Video Output	Max. Resolution
USB 40Gbps Type-C®	DisplayPort 1.4 (HBR3)	4K (3840 x 2160) @ 144Hz
HDMI	HDMI 2.1 (FRL)	4K (3840 x 2160) @ 120Hz

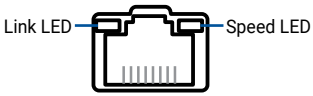
Connecting the keyboard and mouse



Connecting the LAN cable



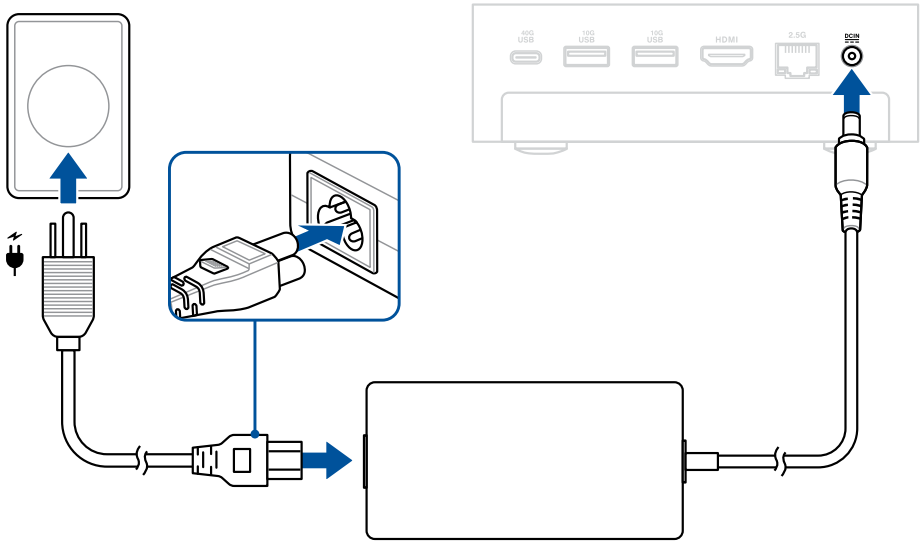
LAN port LED indications:



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:

- Please refer to the following for more information on the adapter and the system:

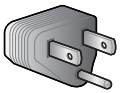
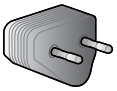
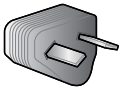
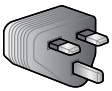
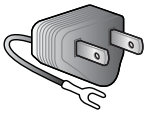
  180W Power adapter

  - Input voltage: 100-240 Vac
  - Input frequency: 50-60 Hz
  - Output current: 9 A (180.0 W)
  - Output voltage: 20 Vdc
  - Rated for use between 0°C and 40°C (32°F and 104°F)

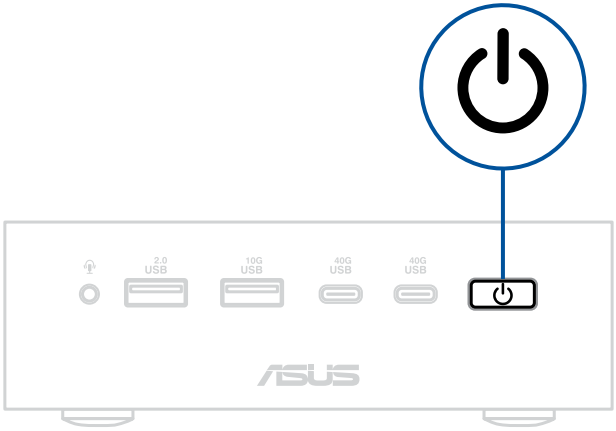
  System

  - Rated input current: 9 A (180.0 W)
  - Rated input voltage: 20 Vdc
  - Operating temperature: 0˚C to 40˚C (32°F to 104°F)

- Operating this system in an environment that exceeds 50˚C (122°F) may cause the system time shown in the BIOS to deviate by more than 3 seconds.

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

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 Mini PC, and is not applicable to the Kit.

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.

- CPU Fan Detection and Speed - Set to automatic.
- After Power Failure - System stays off; press the power button to restart.
- S3 State Indicator - Power light on the front of the system will blink on and off. (This is sleep mode)
- Wake-on-LAN S4/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 Mini PC system to the Off mode with fast startup enabled

You can put your Mini PC 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 Mini PC system is unresponsive, press and hold the power button for at least four (4) seconds until your Mini PC system turns off.

Putting your Mini PC system to sleep

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

- Launch the Start menu, select the power icon then select **Sleep** to put your Mini PC 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 Mini PC system to Sleep mode by pressing the power button once.

Putting your Mini PC system to the lowest power mode

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

1. Enter BIOS setup by pressing <F2> or <DEL> during the boot process.
2. Go to **Power**, and select the **ErP Ready** option.



3. 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**.
4. 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**.
5. Press <Alt> + <F4> to launch Shut Down Windows. Select **Shut down** from the drop-down list then select **OK**.

   If your Mini PC system is unresponsive, press and hold the power button for at least four (4) seconds until your Mini PC system turns off.

Enabling fast startup

You can shut down the your Mini PC 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 Mini PC system, it shuts down to the S5 power state.

Component integration guide

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

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 20 cm between the radiator and your body.

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.
- 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.