



GRAFENTHAL®
IT PRODUCTS • GERMANY

Handbuch

GRAFENTHAL

DAVIDE Mini PC

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About this manual

This manual provides information about the hardware and software features of your PC, organized through the following chapters:

Chapter 1: Getting to know your DAVIDE

This chapter details the hardware components of your DAVIDE.

Chapter 2: Using your DAVIDE

This chapter provides you with information on using your DAVIDE.

Chapter 3: Upgrading your DAVIDE

This chapter provides you with information on how to upgrade the memory modules, wireless modules, and hard disk drive / solid state drive of your DAVIDE.

Appendix

This section includes notices and safety statements your DAVIDE.

Conventions used in this manual

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

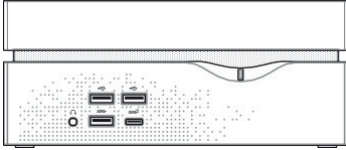
IMPORTANT! This message contains vital information that must be followed to complete a task.

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 DAVIDE's data and components.

Package contents

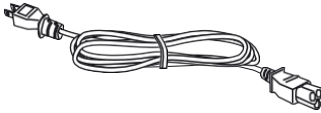
Your DAVIDE package contains the following items:



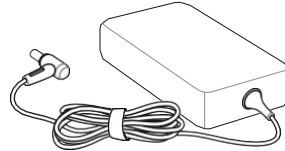
DAVIDE



Technical documentations



Power cord*



AC power adapter*

NOTE:

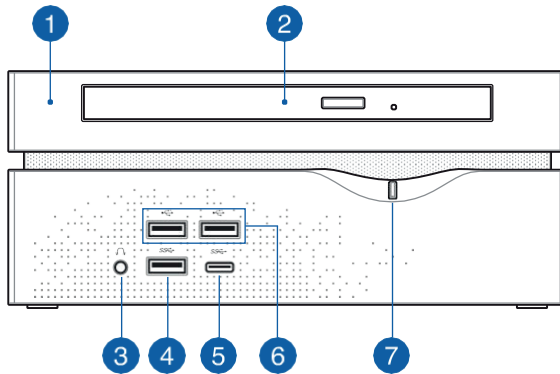
- *Actual product specifications and package contents may vary depending on the model type, country, or region.
 - If the device or any of its components fail or malfunction during normal or proper use and it is still within the warranty period, bring the device to you nearest GRAFENTHAL Service Partner.
-

1

Getting to know your DAVIDE

Features

Front panel



1

Top cover

The removable top cover allows you access to the hard disk drive and the memory modules.

IMPORTANT! Before removing the top cover, turn off your DAVIDE and unplug the power cable.

2

Optical Drive

Your DAVIDE's optical drive may support several disc formats such as CDs, DVDs, recordable discs, or rewritable discs.

3



Headphone jack

This port allows you to connect amplified speakers or headphones.

4



USB 3.0 port

The USB 3.0 (Universal Serial Bus 3.0) port provides a transfer rate up to 5 Gbit/s and is backward compatible to USB 2.0.

5  **USB 3.0 Type-C port**

This USB Type-C (Universal Serial Bus Type-C) port provides a maximum of 1.5A output current, transfer rate of up to 5 Gbit/s, and is backward compatible to USB 2.0.

NOTE: The Type C port has a reversible-plug connector.

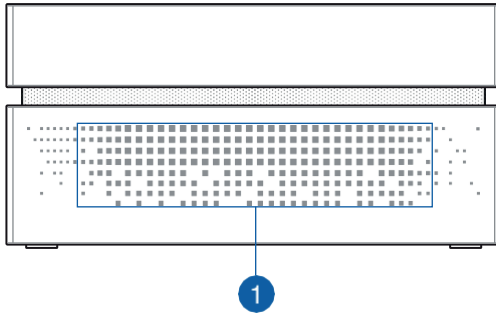
6  **USB 2.0 port**

The USB (Universal Serial Bus) port is compatible with USB 2.0 or USB 1.1 devices such as keyboards, pointing devices, flash disk drives, external HDDs, speakers, cameras and printers.

7  **Power button**

The power button allows you to turn the DAVIDE on or off. You can also press the power button once to put your DAVIDE to sleep mode.

Left side



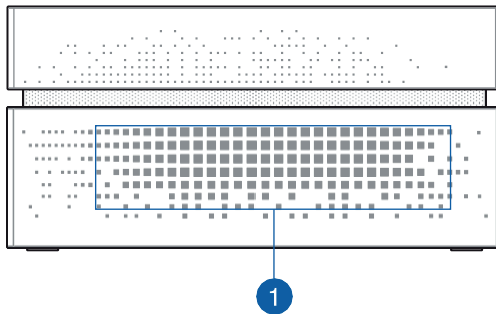
1

Air vents

The air vents allow air to enter your DAVIDE chassis.

IMPORTANT! For optimum air flow, ensure that the air vents are free from obstructions.

Right side



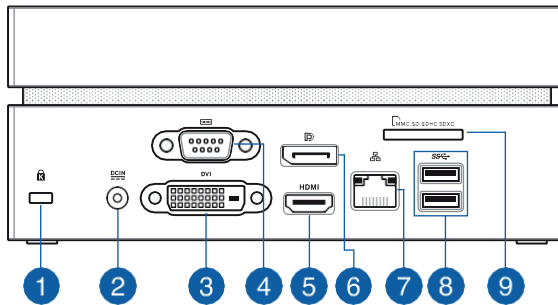
1

Air vents

The air vents allow air to enter your DAVIDE chassis.

IMPORTANT! For optimum air flow, ensure that the air vents are free from obstructions.

Rear panel



1



Kensington® security slot

The Kensington® security slot allows you to secure your DAVIDE using Kensington® compatible DAVIDE security products.

2  **Power input**

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

WARNING! The power adapter may become warm or hot when in use. Do not cover the adapter and keep it away from your body.

3 **DVI DVI port**

This port allows you to connect your DAVIDE to an external display.

4  **Serial (COM) connector**

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

5 **HDMI HDMI port**

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

6  **DisplayPort**

The DisplayPort sends high-performance digital output from your DAVIDE to a display device such as an LCD TV or HD monitor.

7  **Intel® LAN port**

The 8-pin RJ-45 LAN port supports a standard Ethernet cable for connection to a local network.

8  **USB 3.0 port**

The USB 3.0 (Universal Serial Bus 3.0) port provides a transfer rate up to 5 Gbit/s and is backward compatible to USB 2.0.

9



Memory card slot

This built-in memory card reader slot supports MMC, SD, SDHC, and SDXC card formats.

2

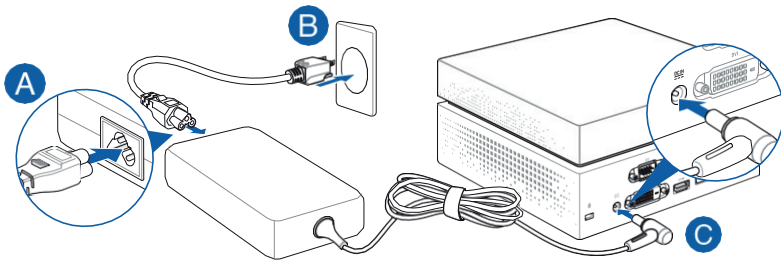
Using your DAVIDE

Getting started

Connect the AC power adapter to your DAVIDE

To connect the AC power adapter to your DAVIDE:

- A. Connect the power cord to the AC power adapter.
- B. Plug the AC power adapter into a 100V~240V power source.
- C. Connect the DC power connector into your DAVIDE's power (DC) input.



IMPORTANT!

- We strongly recommend that you use only the AC power cord that came with your DAVIDE.
 - We strongly recommend that you use a grounded wall socket while using your DAVIDE.
 - The socket outlet must be easily accessible and near your DAVIDE.
 - To disconnect your DAVIDE from its main power supply, unplug your DAVIDE from the power socket.
 - Power adapter information:
 - Input voltage: 100-240Vac
 - Input frequency: 50-60Hz
 - Rating output current: 6.32A max. (120W) / 9.23A max. (180W)
 - Rating output voltage: 19V / 19.5V
-

Connect the USB cable from keyboard or mouse

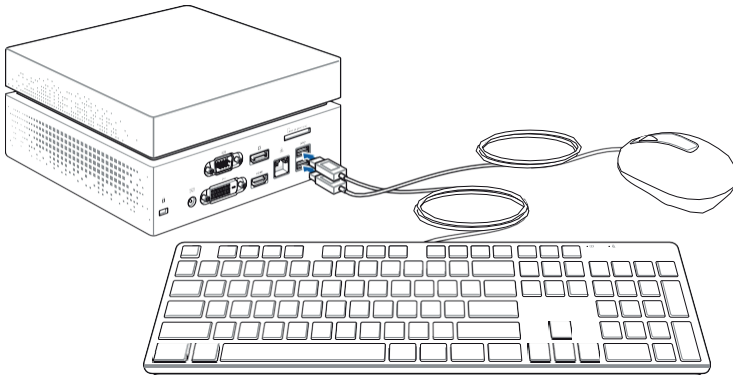
You can connect generally any USB keyboard and mouse to your DAVIDE. You can also connect a USB dongle for a wireless keyboard and mouse set.

To connect a keyboard and mouse to your DAVIDE:

Connect the USB cable from your keyboard and mouse to any of the USB ports of your DAVIDE.

NOTE: The illustrations in this section are for reference only and may vary per model.

Connecting keyboard or mouse via USB port



Connect a display panel to your DAVIDE

You can connect a display panel or projector to your DAVIDE that has the following connectors:

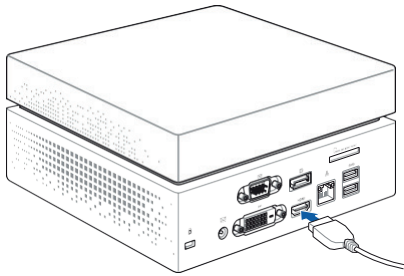
- HDMI connector
- DisplayPort connector
- DVI connector

To connect a display panel to your DAVIDE:

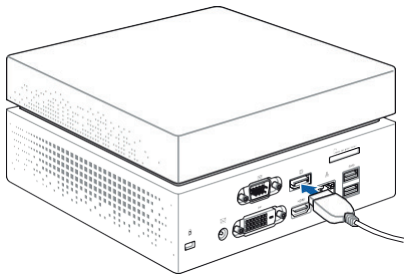
Connect a display cable either to the HDMI, DisplayPort or DVI port.

NOTE: The illustrations in this section are for reference only and may vary per model.

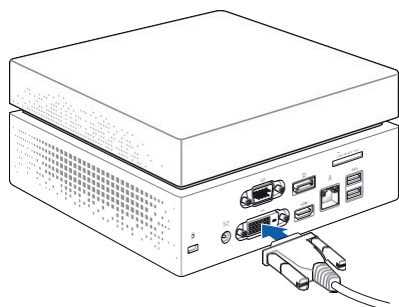
Connecting display via HDMI port



Connecting display via DisplayPort

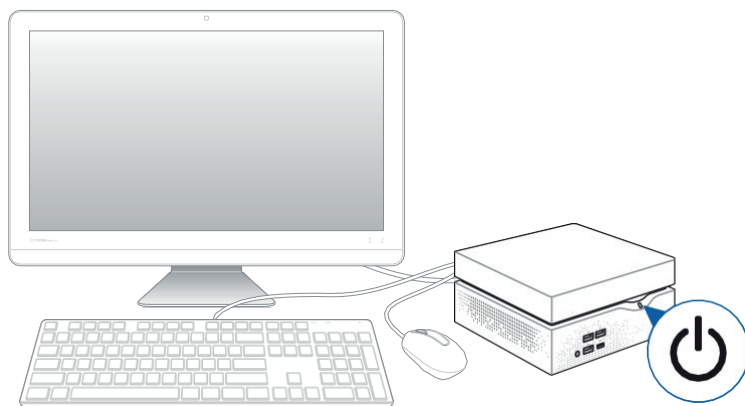


Connecting display via DVI port



Turn on your DAVIDE

Press the power button to turn on your DAVIDE.



Turning your DAVIDE off

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

Putting your DAVIDE to sleep

To put your DAVIDE on Sleep mode, press the Power button once.

Entering the BIOS Setup

BIOS (Basic Input and Output System) stores system hardware settings that are needed for system startup in the DAVIDE.

In normal circumstances, the default BIOS settings apply to most conditions to ensure optimal performance. Do not change the default BIOS settings except in the following circumstances:

- An error message appears on the screen during the system bootup and requests you to run the BIOS Setup.
- You have installed a new system component that requires further BIOS settings or update.

WARNING! Inappropriate BIOS settings may result to instability or boot failure. We strongly recommend that you change the BIOS settings only with the help of a trained service personnel.

Quickly enter the BIOS

To quickly enter the BIOS:

- Press the power button for at least four (4) seconds to shut down your DAVIDE, then press the power button again to turn your DAVIDE back on, then press <F2> or during POST.
- When your PC is off, disconnect the power cord from your DAVIDE's power connector. Reconnect the power cable and press the power button to turn on your DAVIDE. Press <F2> or during POST.

NOTE: POST (Power-On Self Test) is a series of software controlled diagnostic tests that run when you turn on your PC.

Load default BIOS settings

To load the default values for each of the parameters in your BIOS:

- Enter the BIOS by following the steps mentioned in the *Quickly enter the BIOS* section.
- Navigate to the **Exit** menu.
- Select the **Load Optimized Defaults** option, or you may press <F5>.
- Select **Yes** to load the default BIOS values.

3

Upgrading your DAVIDE

Upgrading memory modules

Your DAVIDE comes with two SO-DIMM memory slots that allow you to install two 2GB, 4GB, 8GB, or 16GB DDR4 260-pin SO-DIMMs for a maximum of 32GB memory.

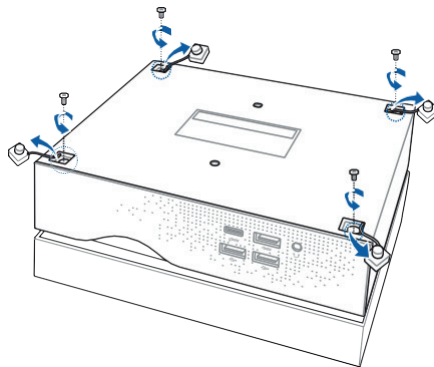
IMPORTANT! Refer to <http://www.GRAFENTHAL.de> for the list of compatible DIMMs. You can only install DDR4 SO-DIMM to the DAVIDE's DIMM slots.

NOTE: The illustrations in this section are for reference only and may vary per model.

To install or upgrade the memory modules:

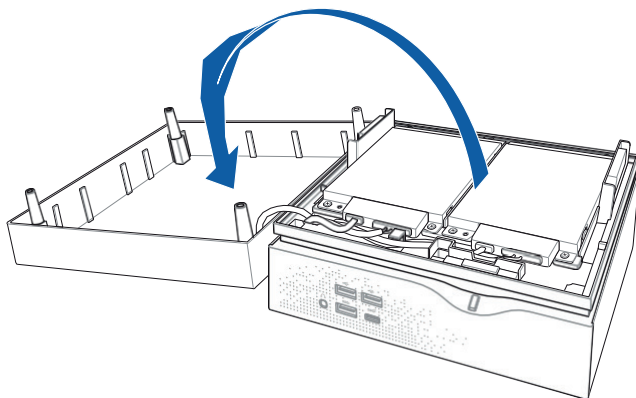
1. Turn off your DAVIDE then disconnect all cables and peripherals.
2. Place the DAVIDE on a flat stable surface, with its bottom side facing up.
3. Using a flat-head screwdriver or straightened paper clip, remove the rubber feet from the sockets, then remove the four (4) screws securing the top cover.

IMPORTANT! The rubber covers are designed to be attached to the bottom side. **DO NOT** force to detach it or completely remove it from the compartment cover.

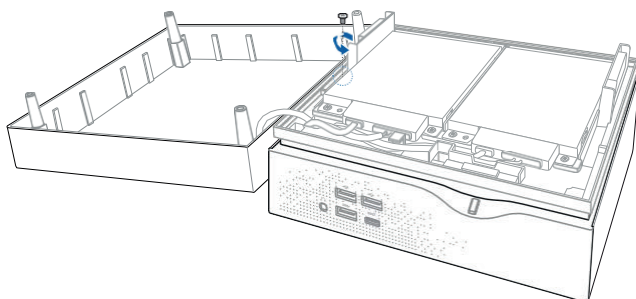


4. Lift and remove the top cover and set it aside.

IMPORTANT! Remove the top cover carefully to prevent pulling on and causing damage to the cables connected. This may vary per model.

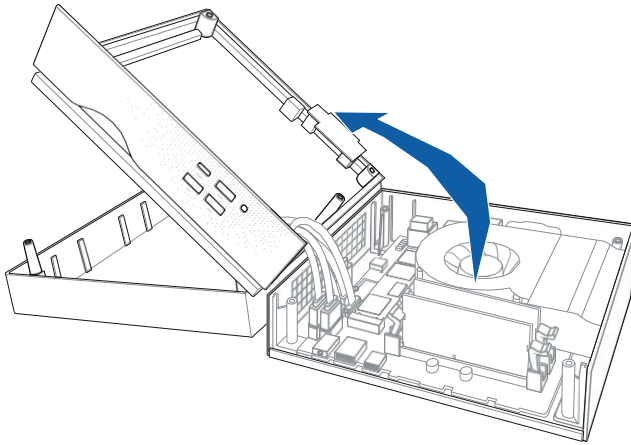


5. Remove the screw from the HDD layer.

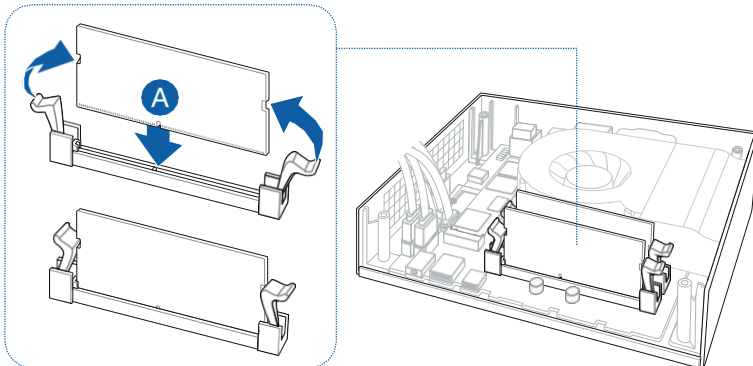


- Lift open the HDD layer.

IMPORTANT! Lift the HDD layer carefully to prevent pulling on and causing damage to the cables connected.

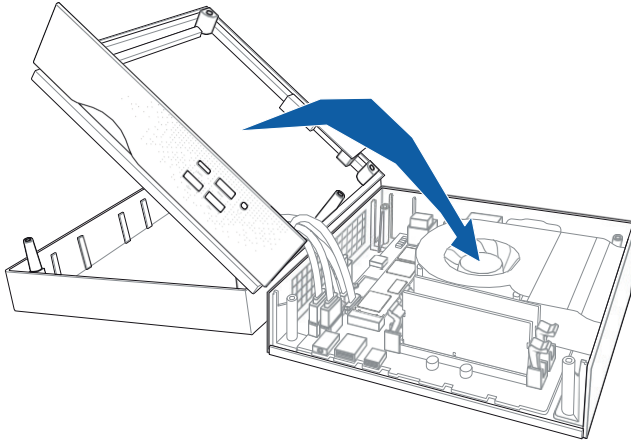


- Align and insert the memory module into the slot and press it down (A) until the retaining clips snaps back into place and it is securely seated in place. Repeat the same step to install the other memory module.

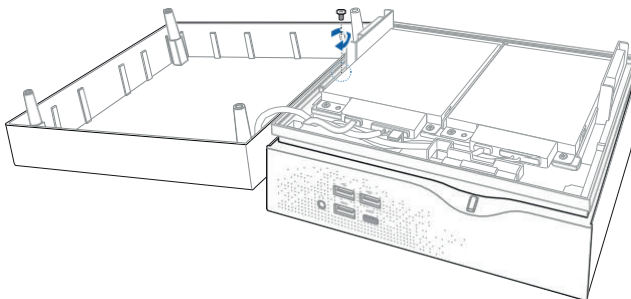


8. Replace the HDD layer.

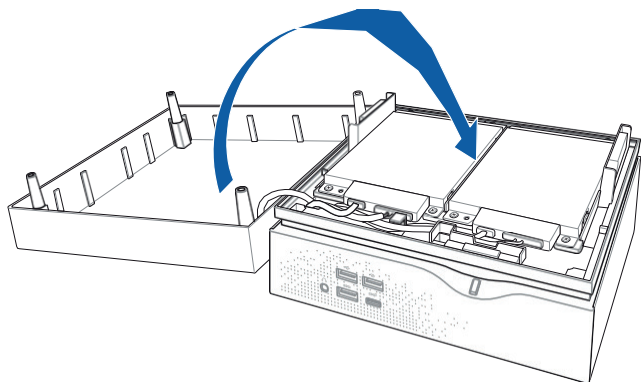
NOTE: Ensure to organize the cables to prevent any your DAVIDE and to ensure the HDD layer can be replaced successfully.



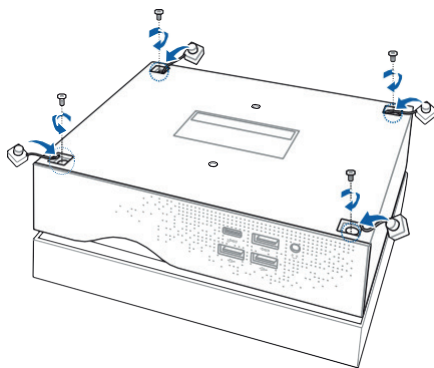
9. Replace the screw to secure the HDD layer.



10. Replace the top cover of your DAVIDE
NOTE: Ensure to organize the cables to prevent any your DAVIDE and to ensure the top cover can be replaced successfully.



11. Reattach the screws to secure the cover back on the bottom side of the main box, then replace the rubber feet back on each screw hole.



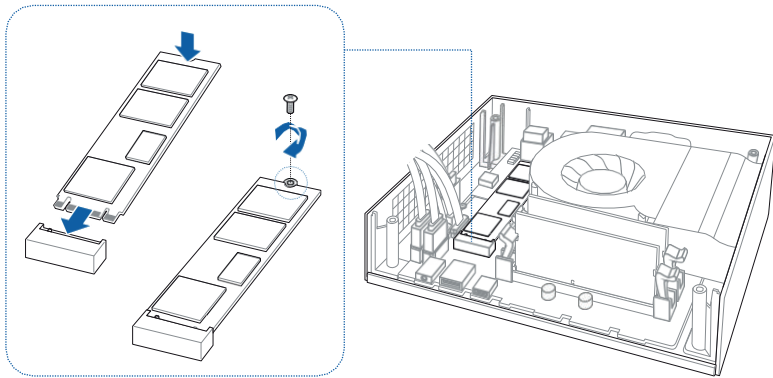
Installing or upgrading the M.2 SSD

NOTE: The illustrations in this section are for reference only and may vary per model.

Your DAVIDE includes a M.2(NGFF) slot that supports a M.2 2280 SSD.

To install or upgrade the M.2 SSD:

1. Follow steps 1-6 under the *Upgrading memory modules* section to remove the top cover and HDD layer of your DAVIDE.
2. Align and insert the M.2 SSD into its slot inside the DAVIDE, then secure it with a screw.



3. Follow steps 8-11 under the *Upgrading memory modules* section to replace the top cover and HDD layer of your DAVIDE.

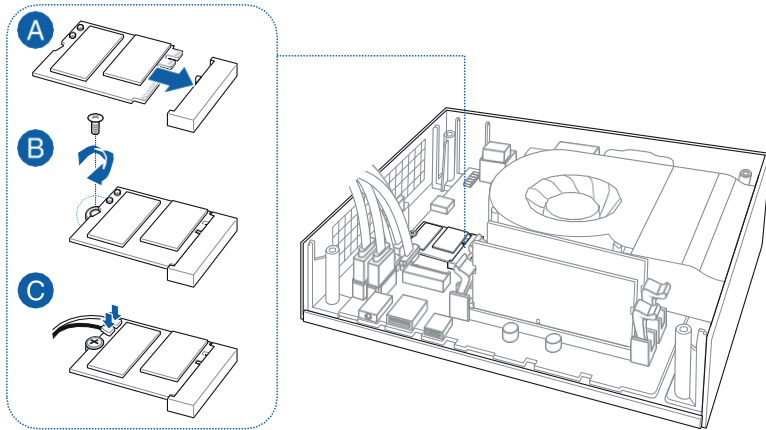
Installing or upgrading the wireless card

NOTE: The illustrations in this section are for reference only and may vary per model.

Your DAVIDE includes a M.2(NGFF) slot that supports a M.2 2230 wireless and bluetooth module.

To install or upgrade a wireless card:

1. Follow steps 1-6 under the *Upgrading memory modules* section to remove the top cover and HDD layer of your DAVIDE.
2. Align and insert the wireless card into its slot inside the DAVIDE (A), then secure it with a screw (B).
3. Connect the black antenna to MAIN▲ or and the white antenna to AUX or on the wireless card (C).



4. Follow steps 8-11 under the Upgrading memory modules section to replace the top cover and HDD layer of your DAVIDE.

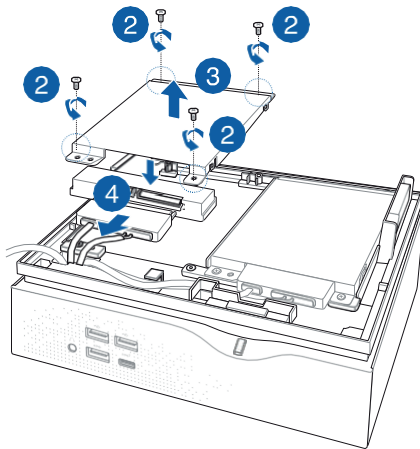
Installing 2.5" HDD/SSD

NOTE:

- The illustrations in this section are for reference only and may vary per model.
 - This bay supports 7mm/9.5mm 2.5" HDDs/SSDs.
 - Some models may only support one (1) HDD/SSD.
-

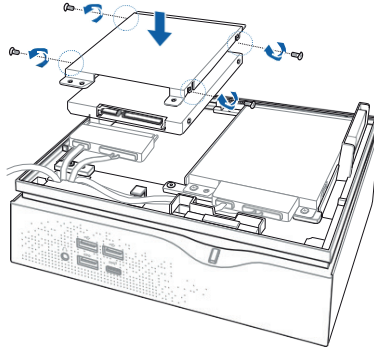
To install or upgrade the HDD / SSD:

1. Follow steps 1-4 under the *Upgrading memory modules* section to remove the top cover of your DAVIDE.
2. Remove four (4) screws from the HDD/SSD bracket.
3. Remove the HDD/SSD bracket.
4. Remove the cable from the holder, then remove the holder from the HDD/SSD bracket.

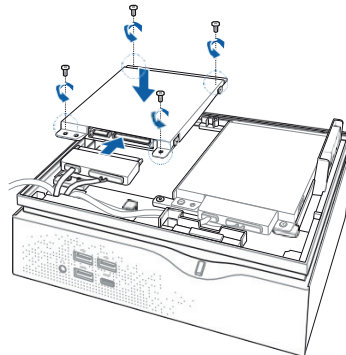


NOTE:

- Ensure to remove the holder from the bracket when installing an HDD/SDD to the bracket.
 - The availability of the holder may vary depending on the model type, country, or region.
-
5. To install a new HDD/SSD, secure the HDD/SSD to the bracket using the bundled four (4) screws.



6. Connect the cable to the HDD/SSD, then align the bracket to the HDD/SSD compartment of your DAVIDE and secure the bracket with the screws previously removed.



7. Follow steps 10-11 under the *Upgrading memory modules* section to replace the top cover of your DAVIDE.

Appendix

Safety information

Your DAVIDE is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- Read and follow all instructions in the documentation before you operate your system.
- Do not use this product near water or a heated source.
- Set up the system on a stable surface.
- 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 35°C.
- 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.

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 been 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.

Lithium-Metal Battery Warning

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries

NO DISASSEMBLY

The warranty does not apply to the products that have been disassembled by users



DO NOT throw the DAVIDE in municipal waste. This product has been designed to enable proper reuse of parts and recycling. This symbol of the crossed out wheeled bin indicates that the product (electrical, electronic equipment, and mercury-containing button cell battery) should not be placed in municipal waste. Check local technical support services for product recycling.

COATING NOTICE

IMPORTANT! To provide electrical insulation and maintain electrical safety, a coating is applied to insulate the device except on the areas where the I/O ports are located. _____

- This device may not cause harmful interference, and
- This device must accept any interference received including interference that may cause undesired operation.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

