

MINIS FORUM

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• Tips for Use

1. Dust, moisture and drastic temperature changes will affect the product life, so please try to avoid placing the product in these places.
2. The suitable temperature for the product and accessories is 0°C - 35°C.
3. When using this product, make sure to leave enough space around the product for heat dissipation. Please avoid paper fragments, screws, wires and other small objects near the adapter, slots, holes, etc. of this product to avoid short circuits and poor contact. Do not insert any objects into the unit to avoid short circuiting or circuit damage.
4. Always keep the product at least 20cm away from your body when you are installing or operating the product.
5. When you use the power extension cords, the total current of all connected products should be within the rated current of cables, ensuring stable operation.

• Safety Precautions

- ▲ Warning: Do not hot-swap motherboard components while the system is powered on. Hot-swapping motherboard components may cause data loss/damage or even hardware damage.
- ▲ Warning: After installation, make sure the screws of the bottom motherboard components are properly installed. If not locked, it may cause the motherboard bracket to slide, which could lead to hot-swapping of the motherboard components.
- ▲ Warning: Unless necessary, avoid hot-swapping SATA hard drives while the system is powered on, as it could lead to data loss. SATA hot-swapping can only be used when the system/software and HDD hardware fully support it, and software must control the SATA hard drive to be in a safe-to-remove state.

• Maintenance Guideline

1. Do not step on the power cord or put anything on your NAS.
2. Do not spill water or any other liquid over this product.
3. There's still some current passing through even when the system is off. To avoid severe damage caused by possible electric shock, plug out all power cables from sockets temporarily before cleaning or moving this product.
4. If you encounter any technical problems with the product, please unplug the power cord and contact our qualified service technician or authorized retailer.

• FAQ

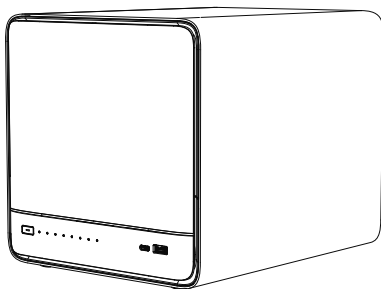
1. The start-up speed may be slow in the following situations: unexpected restart, BIOS reset, memory bank replacement, and SSD replacement. Generally speaking, the start-up speed will return to normal after one successful power-on and power-off process.
2. The core graphics card will occupy a part of the memory as GPU-specific memory.
3. The status LEDs on the front panel and the hardware of the buzzer are supported only on systems/software that support them.

Note: --- This message contains additional instructions for this item.

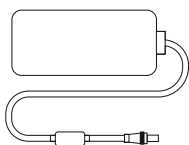
Important! --- This information contains instructions that must be followed.

Warning! --- This message contains information about user safety and product safety.

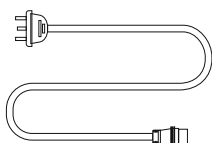
Package Contents



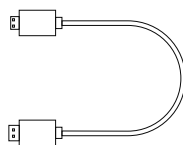
NAS



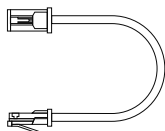
Ac Power Adapter */



Power Cord */



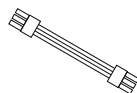
HDMI® I Cable */



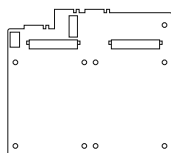
Network Cable */



HDD Hard Drive Screw Set */



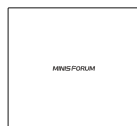
U.2 SSD Power Cord */



U.2 to Customized M.2
Adapter Card */



U.2 Mounting Screw Set */



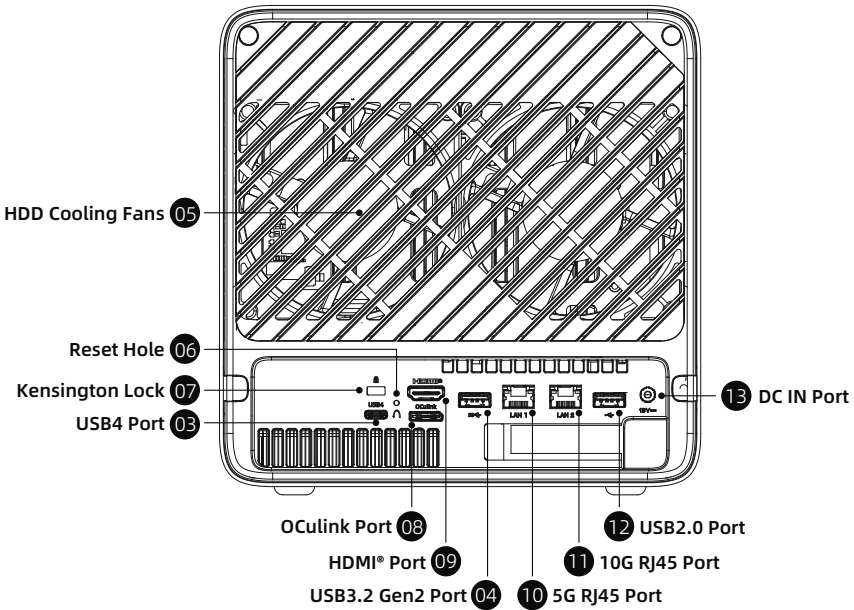
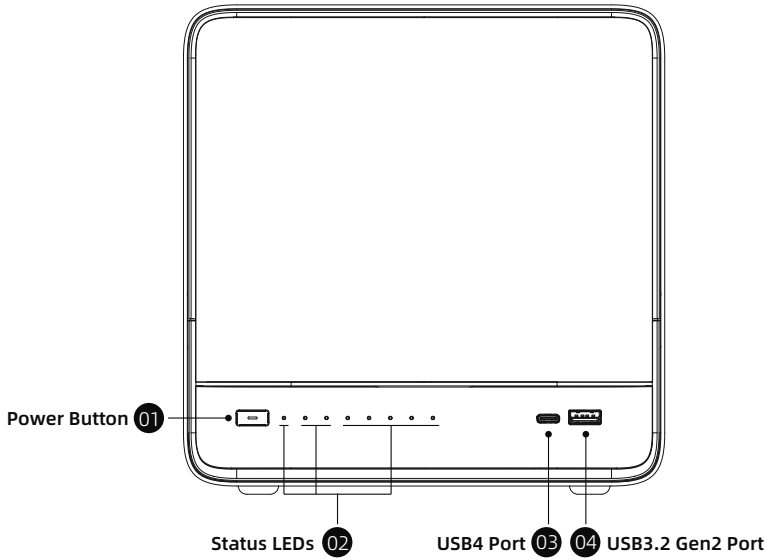
User Manual */

Note:

*1. Customized U.2 to Customized M.2 Adapter Card and U.2 Mounting Screw Set are only available on some models.

*2. The power adapter and other accessories included in the box will vary depending on the model parameter or area purchased.

Get to Know Your NAS



Ports

- 01 Power Button**

Press this button to turn the NAS on/off; process hold this button for 10 seconds to force the NAS off.
- 02 Status LEDs**
 - STATUS LED: System status LED, which can indicate system hardware anomalies when supported by software.
 - LAN LED: Indicate the connection status and network condition of the rear RJ45 port.
 - HDD STATUS LED: Remain on when the HDD is inserted, flash during read/write operations, and may indicate any issues with the specified HDD when supported by the software.
- 03 USB4 Port**

This port supports the USB4 transmission protocol. The maximum data transmission rate is 40Gbps. It supports Alt DP audio and video output, 5V/3A peripheral charging, maximum 15W power charging, and PCIe data transmission.
- 04 USB3.2 Gen2 Port**

USB3.2 Gen2 (Universal Serial Bus) port provides a transmission rate of up to 10 Gbit/s. It can be connected to keyboards, pointing devices, cameras, hard disks, printers and scanners.
- 05 HDD Cooling Fans**

These cooling fans expel hot air from the NAS case.
Important! Do not allow paper, books, clothing, cables, or any other objects to block the ventilation holes, as this may cause the machine to overheat.
- 06 Reset Hole**

Please remove the power, press and hold the reset hole for 10 seconds to restore the BIOS to the factory defaults.
Important! If you encounter some problems during use, you can first try to solve it by pressing the reset hole.
- 07 Kensington Lock**

The Kensington Lock can be connected to a locker to prevent others from stealing your NAS.
- 08 OCuLink Port**

This port supports up to PCIe4.0x4 speed and can connect external graphics cards and other PCIe devices.
Note! A specialized expansion device is required.
- 09 HDMI® Port**

The HDMI® port (High-Definition Multimedia Interface) is an uncompressed, fully digital audio/video port that provides a common data connection channel for compatible devices. It can be used to connect external display devices and televisions.
- 10 5G RJ45 Port**

This 5G RJ-45 network port supports standard Ethernet cables and can be connected to LANs. (Transmission speed 5Gbps)
- 11 10G RJ45 Port**

This 10G RJ45 network port supports standard Ethernet cables and can be connected to LANs.

12 **USB2.0 Port**

The USB (Universal Serial Bus) port is compatible with USB2.0 or USB1.1 devices such as keyboards, and printers.

13 **DC IN Port**

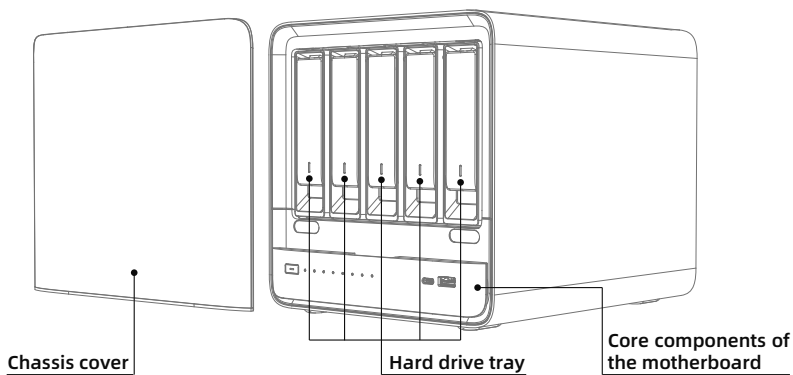
The supplied power adapter can convert AC power to DC power for use, and supply power through this jack to the NAS. To prevent damage to your NAS, please use the supplied power adapter.

Warning! When the power supply is in use, the temperature of the power adapter may rise and become hot. Do not cover the power adapter or get close to you.

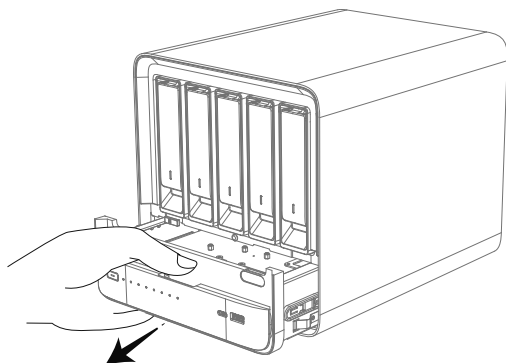
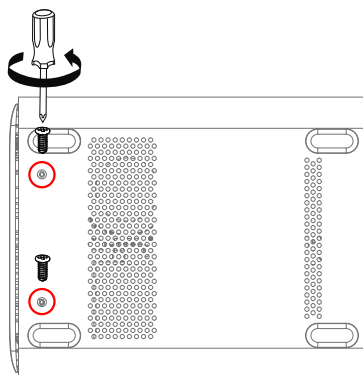
Power adapter: DC 19V

3 Installation Guide

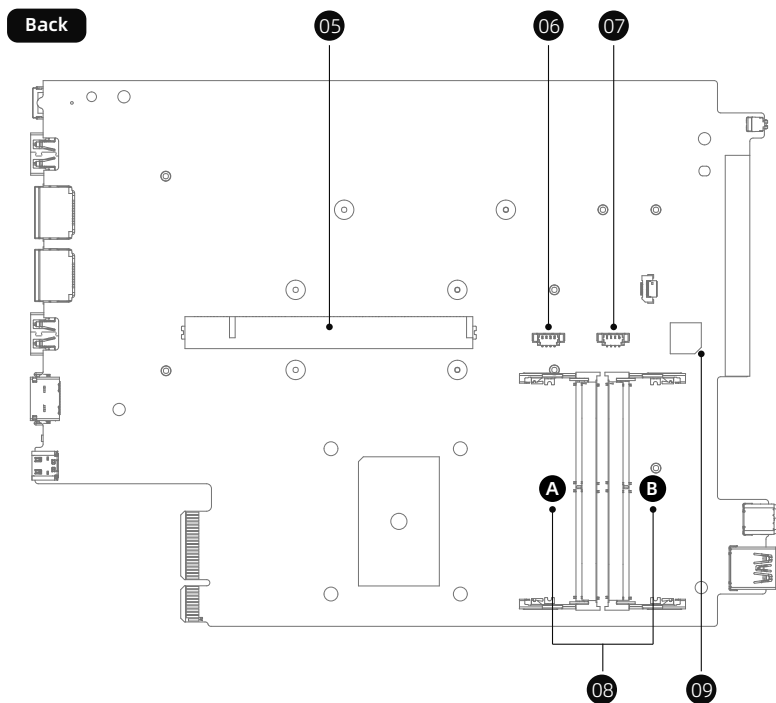
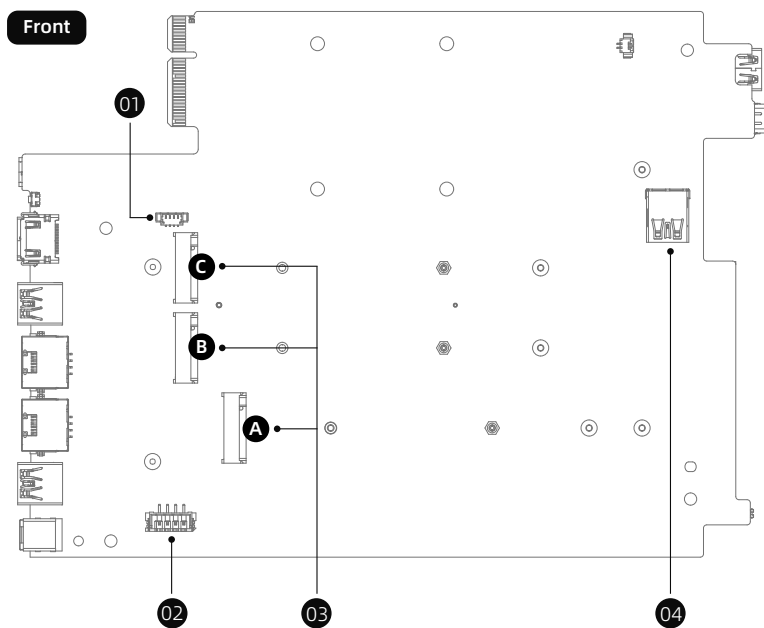
1



2 Remove the two screws of the logo and pull apart core components of the motherboard.



Motherboard Layout



Motherboard Port

01 SSD fan Port

Auxiliary cooling for 10G NIC chips/NVME/U.2 hard drives.

02 U.2 power Port

U.2 power port provides 12V power for the U.2 adapter card.

03 M.2 NVME SSD Port

Supports NVME SSDs based on the PCIe protocol for 2230/2280/22110 formats. Does not support M.2 hard drives based on the SATA protocol.

- PCIe channel allocation:
 - A. PCIe4.0x1
 - B. PCIe4.0x2
 - C. PCIe4.0x1

04 Built-in USB Port

USB3.2 Gen2 10Gbps port.

05 PCIe Port

Supports cards that can be inserted into up to x16 slots, with a maximum transfer speed of PCIe4.0x4.

Important! Only supports single-slot, half-height PCIe cards.

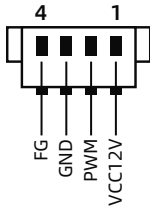
06 CPU fan Port

12V CPU fan port.

07 DIY PCIe fan Port

Reserved fan port.

Port definitions from 1-4: VCC12V, PWM, GND, FG.



08 Memory slots

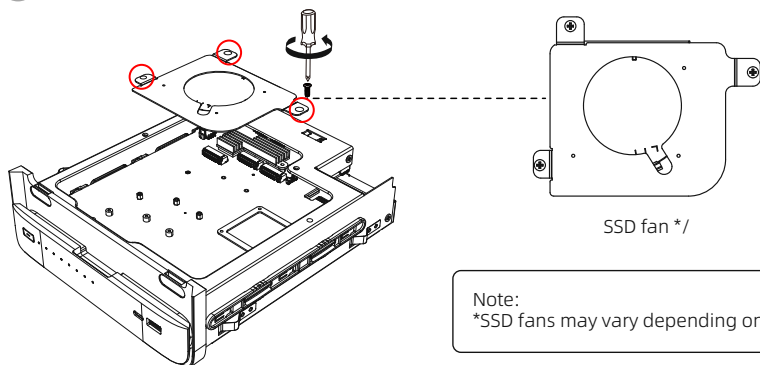
Supports DDR5 SODIMM memory up to 5600 MHz. Maximum supported capacity: 48Gx2=96GB.

Note: Only CPU models with PRO support ECC memory and can enable ECC functionality.

09 Buzzer

Alerts users about system/hardware anomalies when supported by software/systems.

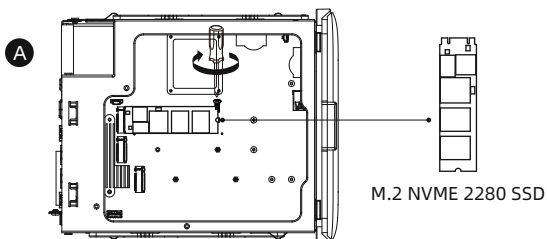
- 3 Use a tool to unscrew the front SSD fan screws.



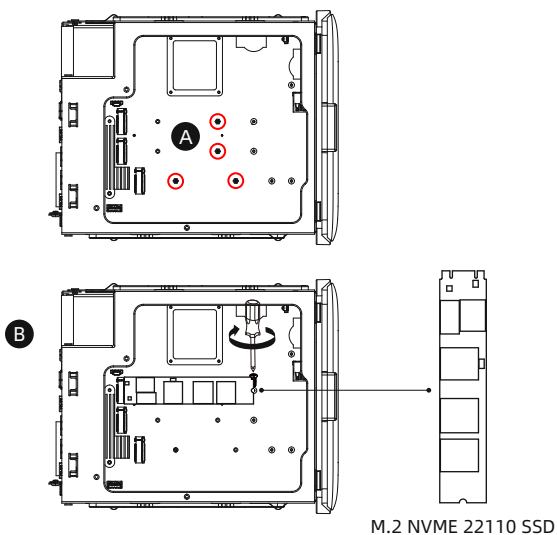
Note:
*SSD fans may vary depending on model.

DIY SSD

- 4 Install the SSD into its slot by inserting it slantly and fix it with screws.

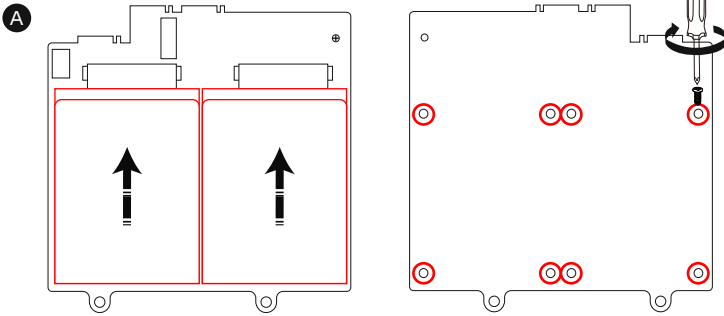


- 5 **Note:** To installation 22110 SSD, you need to use a tool to unscrew the hexagonal screw post first.

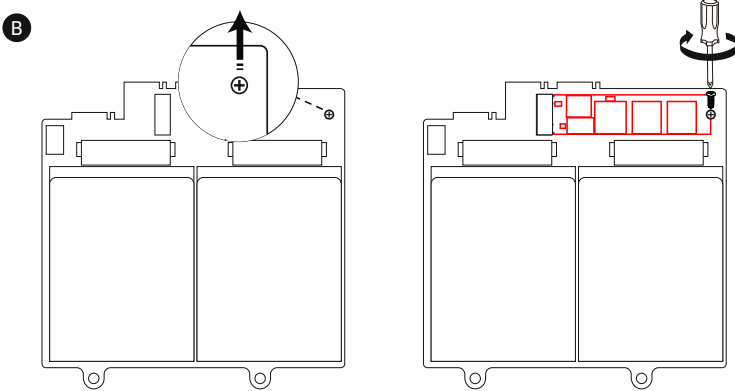


DIY U.2 to Customized M.2 Adapter Card

- 6 Assemble the U.2 hard drive to the U.2 to customized M.2 adapter card and lock the screws.

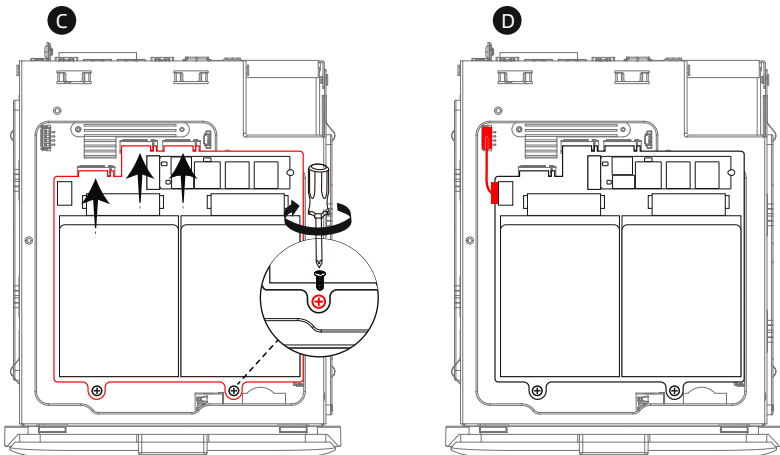


- 7 Remove the standoffs from the small board, mount the M.2 NVME 2280 SSD onto the U.2 to customized M.2 adapter card, and secure the screws.

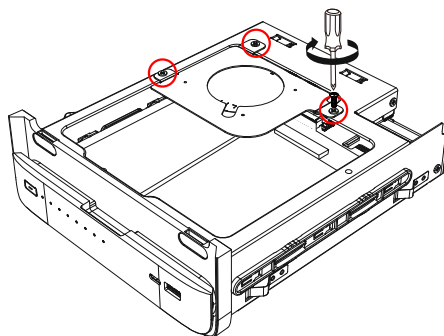


- 8 Insert the U.2 to customized M.2 adapter card horizontally into the M.2 slot, align the positioning pin, and secure it with screws.

Note: Ensure the gold finger is fully inserted. Finally, connect the U.2 power cable.

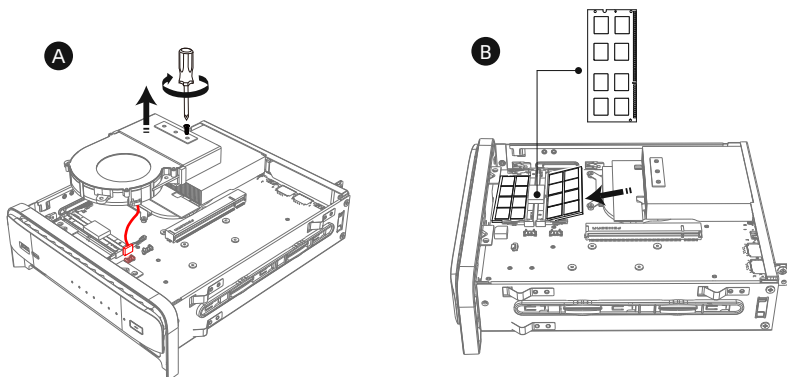


- 9 Use a tool to tighten the front SSD fan screws.



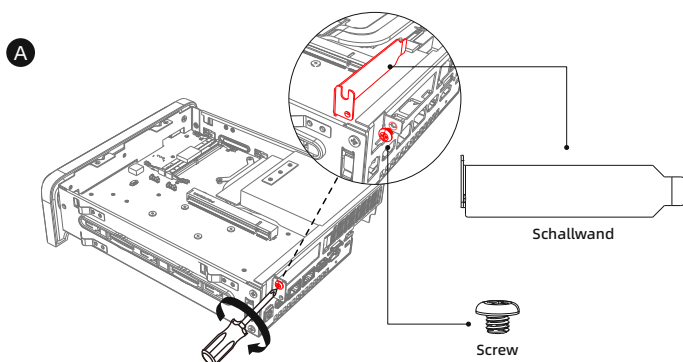
DIY DDR

- 10 Unplug the fan power cable, then remove the rear cooler, and insert the memory into the memory slots as shown.



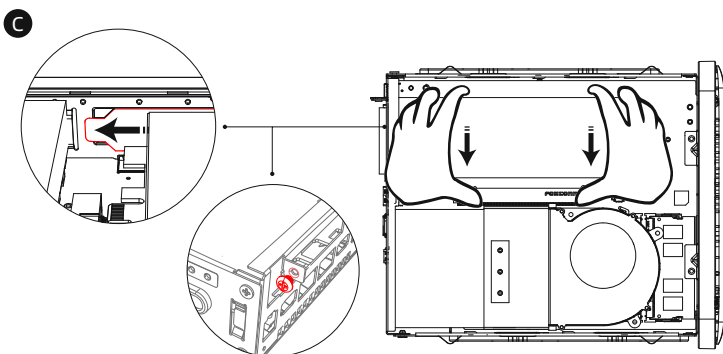
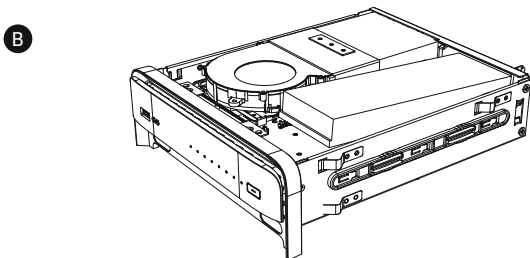
DIY PCIE Expansion Card

- 11 First, use a tool to unscrew the schallwand screws and remove the schallwand.

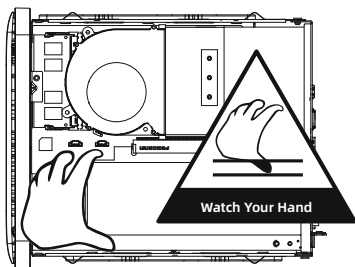
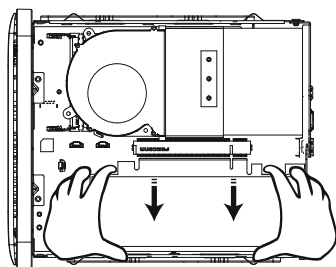


- 12 Insert the expansion card into the core components of the motherboard in an oblique direction, insert the expansion card parallel into the PCIE slot with both hands, and re-secure the screws.

Note: Only half-height single-slot PCIE expansion cards are supported.



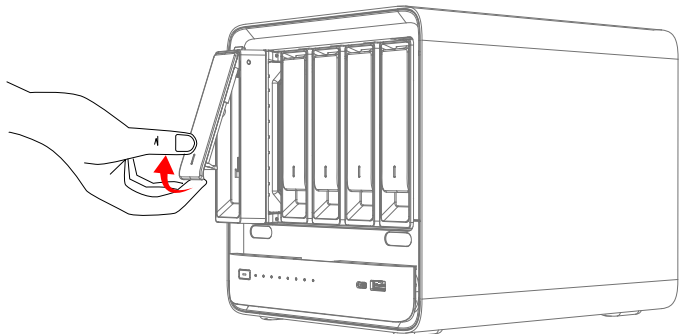
Warning! The correct way to disassemble the expansion card is as shown in the figure, and be careful not to pinch your hands.



Installation Guide for 3.5-inch Hard Disk/2.5-inch Hard Disk

1 Hard disk installation guide

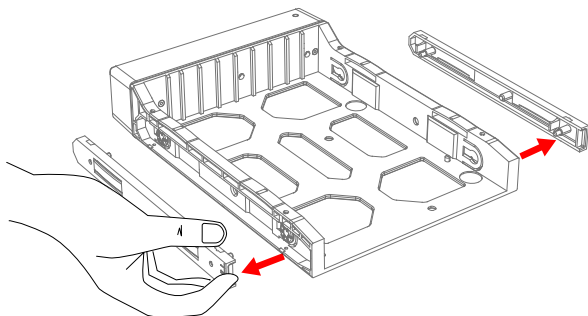
Remove the magnetic chassis cover, lift the latch on the tray handle, and pull out the tray.



2 Installing a 3.5-inch hard drive

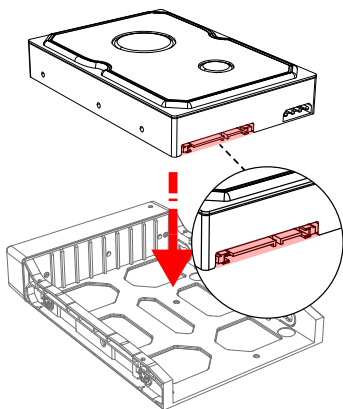
A

Remove the locking strips on both sides of the tray.



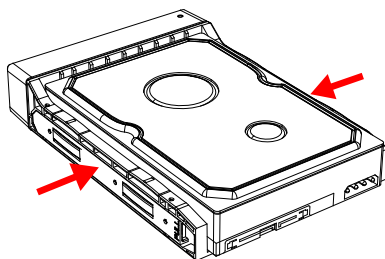
B

Insert the hard drive at the angle shown.



C

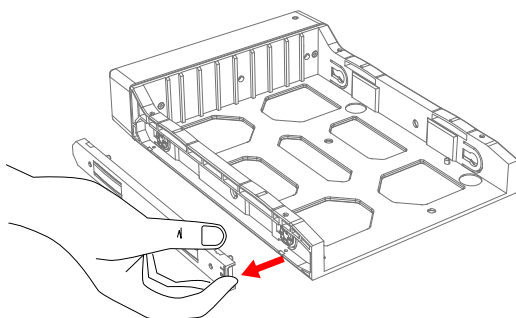
Reattach the locking strips to secure the hard drive. Finally, place the tray back into the chassis and close the latch.



3 Installing a 2.5-inch hard drive

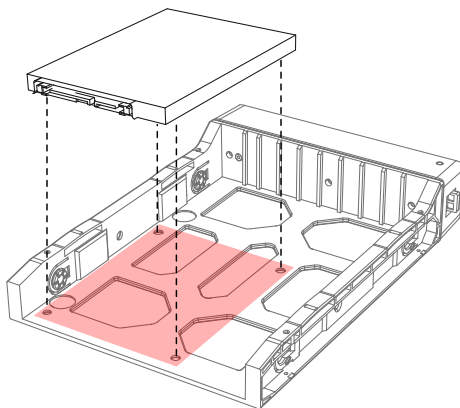
A

Remove the left-side locking strip of the tray.



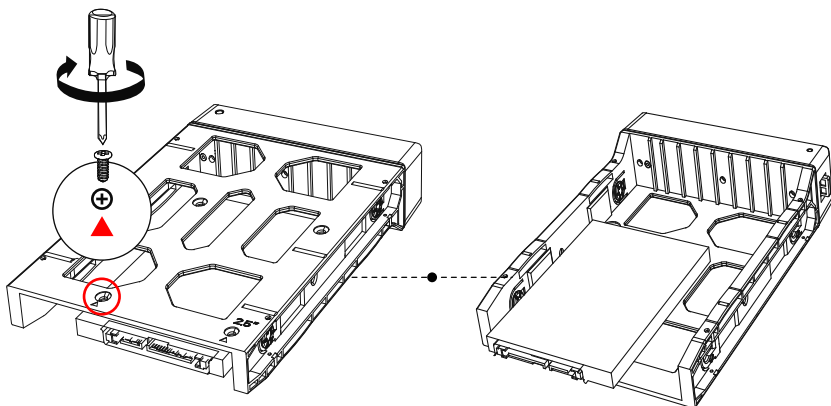
B

Align the hard drive with the four fixing holes in the tray, then flip the tray to the back.

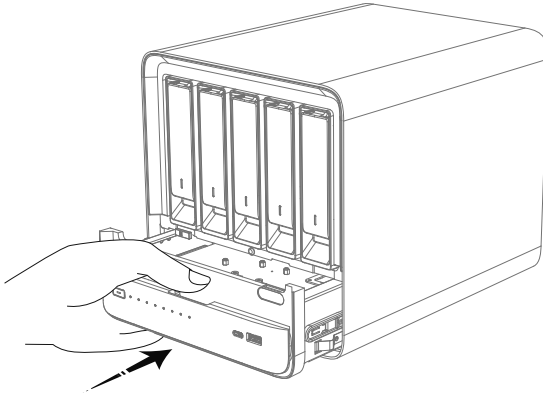


C

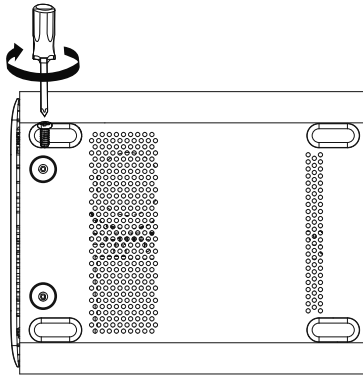
Insert screws and tighten.
Finally, place the tray back into the chassis and close the latch.



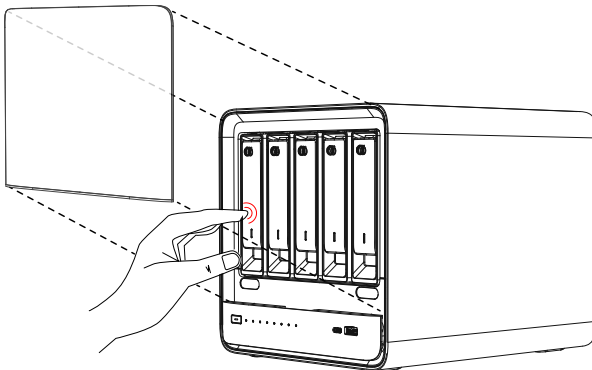
- 1 Ensure the core components of the motherboard are correctly inserted.



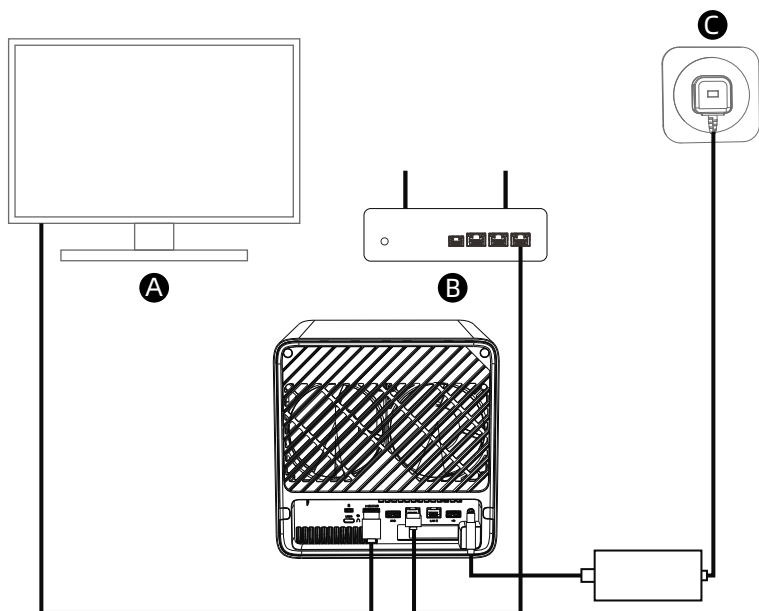
- 2 Lock the screw for the bottom core components of the motherboard.



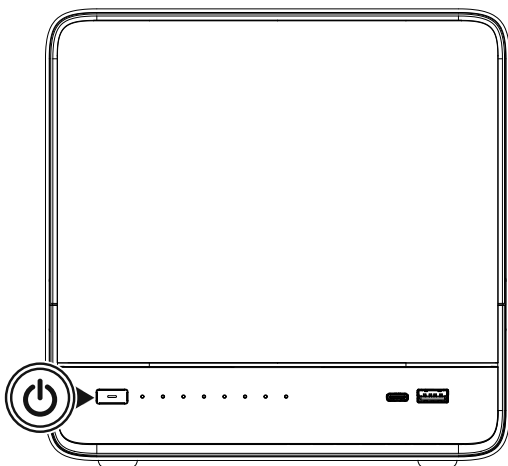
- 3 Ensure the hard drive tray is correctly inserted and close the magnetic chassis cover.



- 4** Insert the monitor and network cable, and connect the power cable and adapter.
Note: *No need to insert a monitor, as the NAS can run independently.



- 5** Press the power button to start the system.



MINISFORUM

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