

**MINISFORUM**

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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

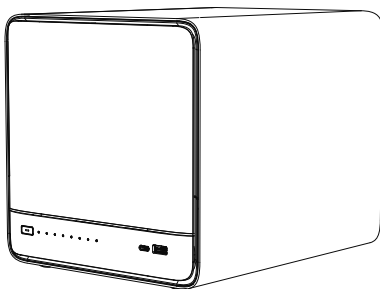
1. Under the following circumstances, the boot speed may become slower: Unexpected restart, BIOS reset, or SSD replacement. Generally, after completing one normal shutdown and startup cycle, the boot speed will return to normal.
2. The core graphics card will occupy a part of the memory as GPU-specific memory.
3. The status LEDs on the front panel and the hardware of the buzzer are supported only on systems/software that support them.
4. The USB4V2 interface is expanded via the JHL9580 controller, compatible with Thunderbolt 5 (TBT5), and supports data transfer speeds up to 80 Gbps.
5. Due to limited compatibility between AMD CPUs (Strix Halo platform) and external discrete GPUs, it is not recommended to use the USB4 or USB4V2 interfaces to connect an external GPU (eGPU).

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

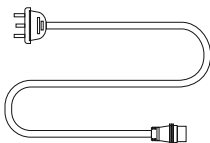
Important! --- This information contains instructions that must be followed.

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

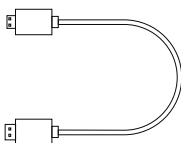
### Package Contents



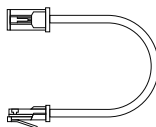
NAS



Power Cord \*/



HDMI® Cable \*/



Network Cable \*/



Drive bay key \*/



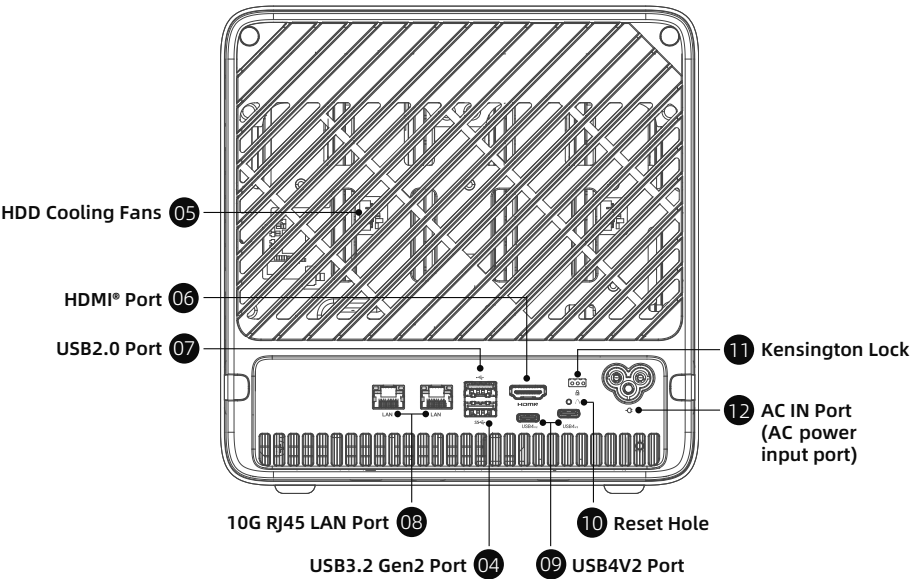
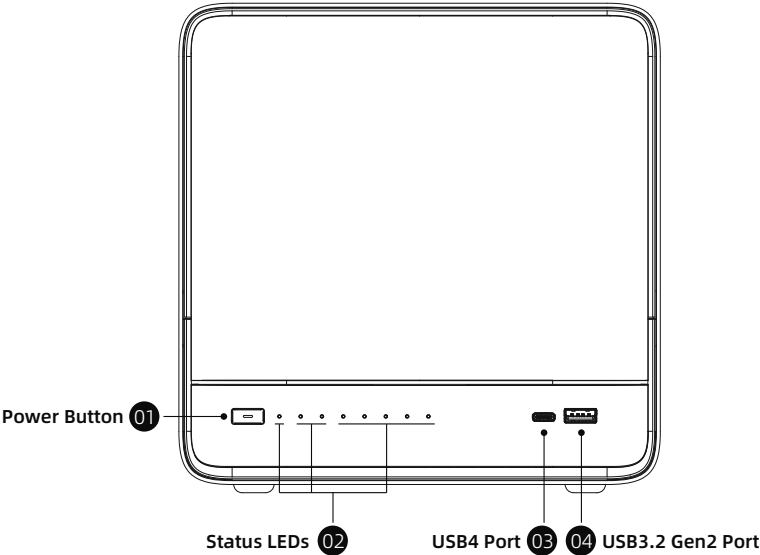
Screw Set \*/



User Manual \*/

**Note:**

\* The included accessories may vary depending on the model specifications or the region of purchase.





## 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 interface supports USB4 (TBT4) transfer protocol, with a maximum data transfer rate of 40 Gbps. It supports Alt DP audio-video output, provides only 5V/3A external power supply, and enables PCIe data transfer as well as Thunderbolt Ethernet connectivity.

### 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 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.

### 07 USB2.0 Port

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

### 08 10G RJ45 LAN Port

This RJ45 network port supports standard Ethernet cables and can connect to local area networks (LANs), with a transfer rate of 10 Gbps.

### 09 USB4V2 Port

This interface supports USB4V2 (TBT5) transfer protocol, with a maximum data transfer rate of 80 Gbps. It supports Alt DP audio-video output, provides only 5V/3A external power supply, and enables PCIe data transfer as well as Thunderbolt Ethernet connectivity.

### 10 Reset Hole

**Reset network settings:** With the system powered on (on supported systems), press and hold the reset hole for 5 seconds. The network settings will be restored to the system default values (DHCP automatically obtains an IP address).

**Reset BIOS settings:** Shut down the system and remove the power cord. Press and hold the reset hole for 5 seconds. The BIOS settings will be restored to the factory default values.

**Important!** If you encounter some problems during use, you can first try to solve it by pressing the reset hole.

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#### **Kensington Lock**

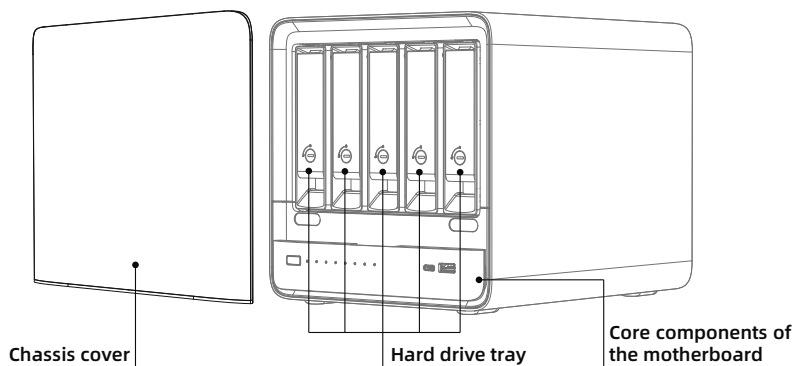
The Kensington Lock can be connected to a locker to prevent others from stealing your NAS.

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#### **AC IN Port (AC power input port)**

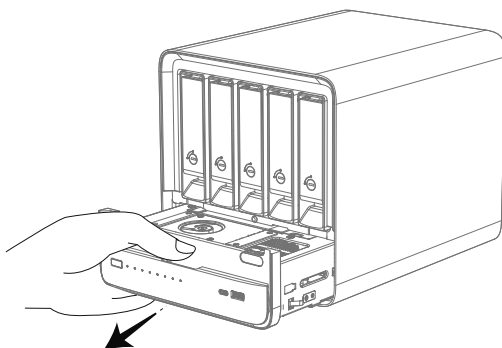
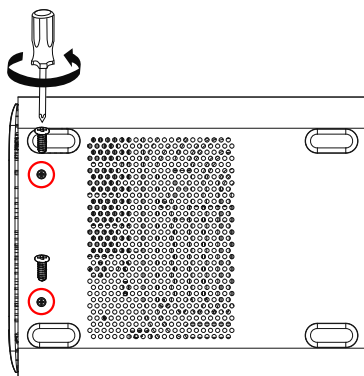
Connect the power supply using the power cord. The built-in high-efficiency power supply converts AC power to DC power, which provides power to your NAS.

1



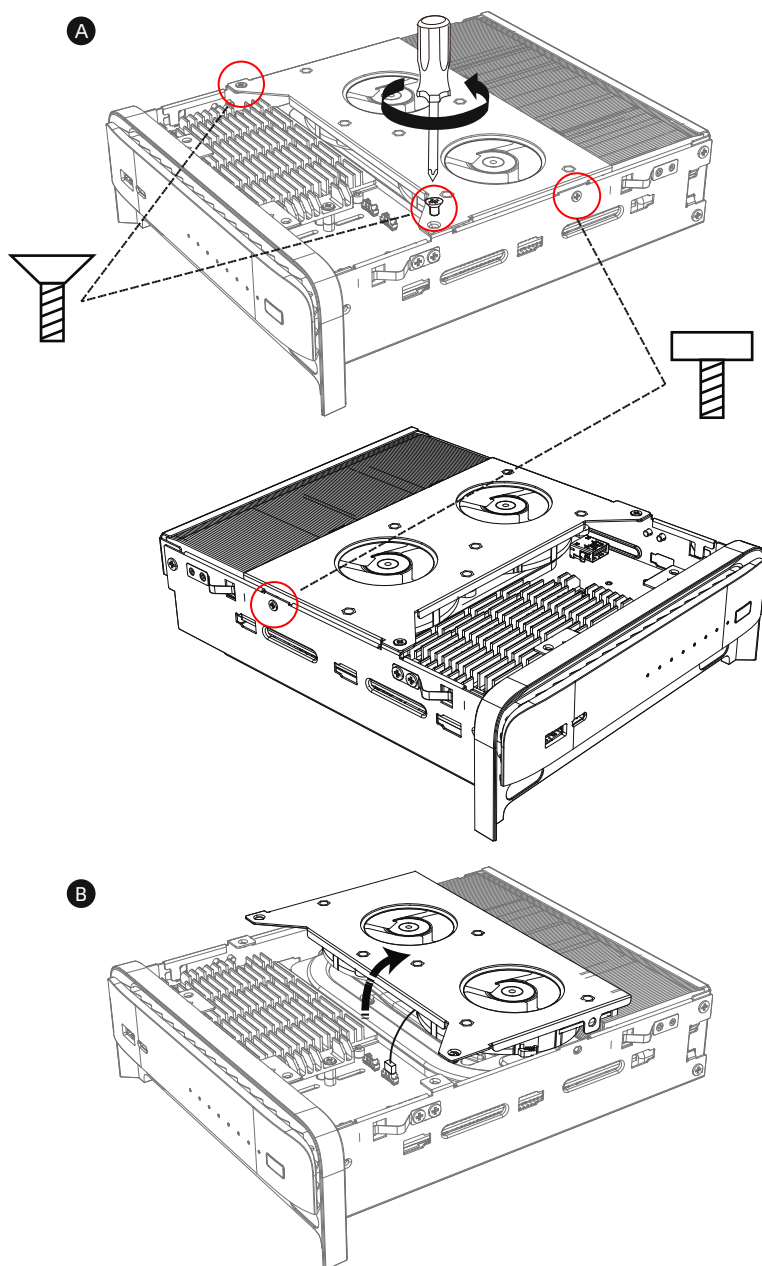
2

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

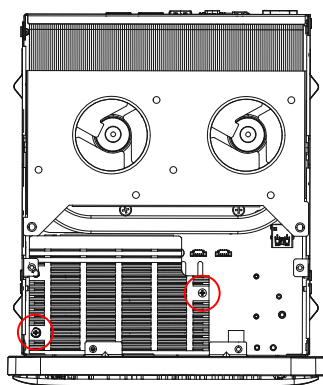


- 3 Use a tool to remove the four screws securing the CPU fan bracket, then remove the CPU fan bracket.

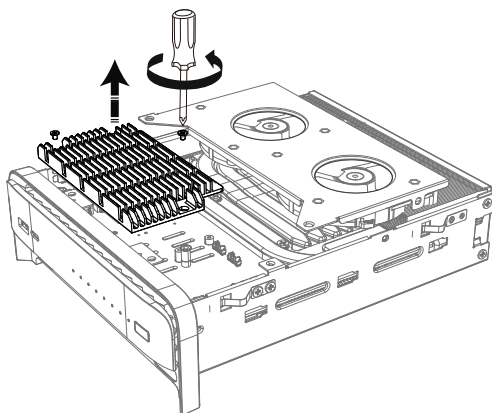
**Important!** When reinstalling the CPU fan bracket, ensure that the correct screw types are used as indicated. Otherwise, the motherboard module may not be able to slide back into the chassis.



- 4 Use a tool to remove the two screws securing the SSD heatsink, and then remove the SSD heatsink.

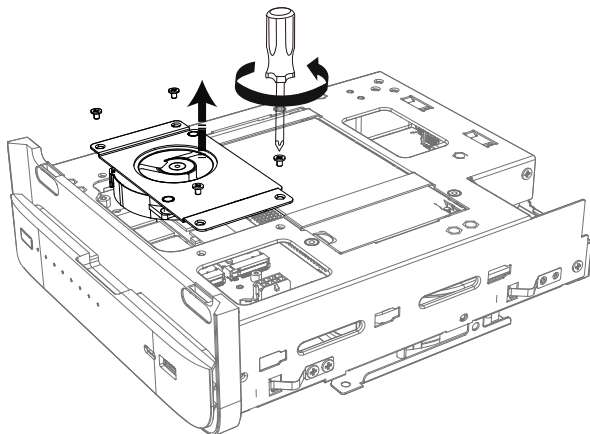


A



B

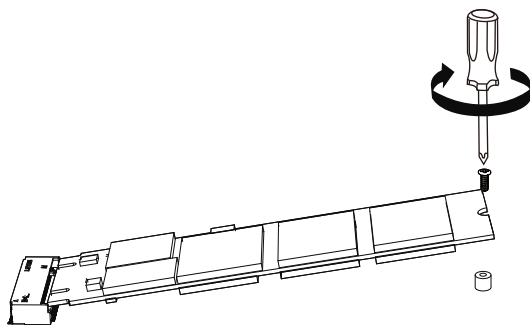
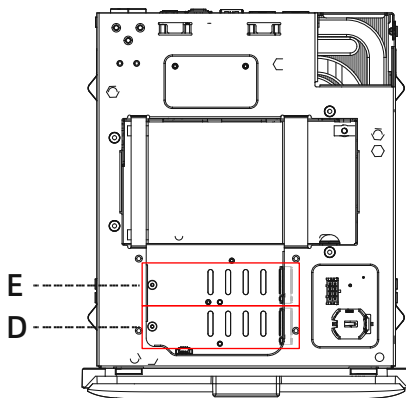
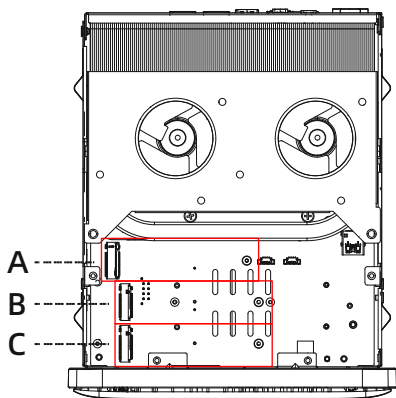
- 5 Use a tool to remove the four screws securing the power supply cooling fan, and remove the fan.



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

**Note:** Supports NVMe SSDs based on the PCIe protocol. M.2 SSDs based on the SATA protocol are not supported. For high-performance SSDs, it is recommended to install them first in M.2 slot [A].

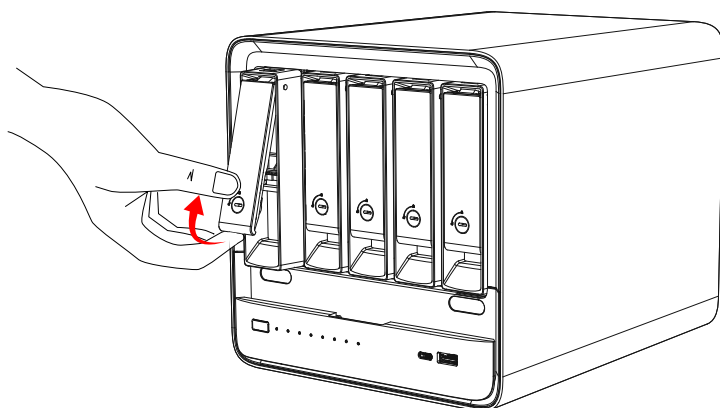
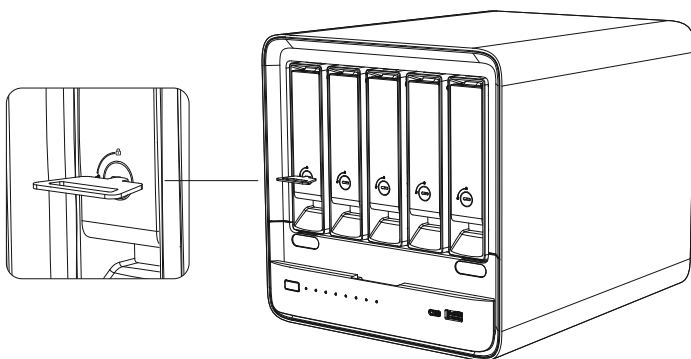
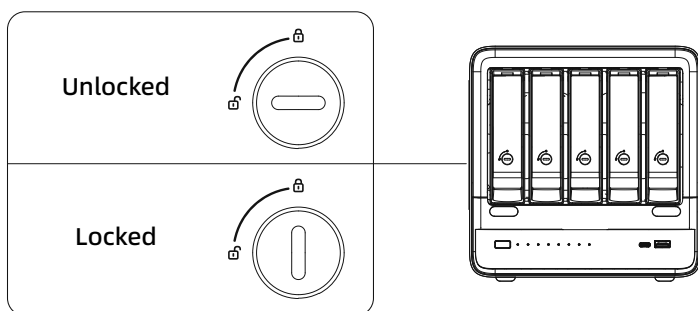
PCIe lanes	
A	PCIe4.0 x4 2280
B	PCIe4.0 x1 2280/2230
C	PCIe4.0 x1 2280
D	PCIe4.0 x1 2280
E	PCIe4.0 x1 2280



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

## 1 Hard disk installation guide

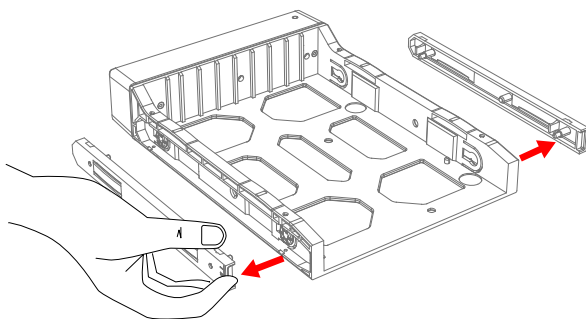
Remove the magnetic top cover, then use the included drive bay key to unlock the drive tray and pull the tray out.



## 2 Installing a 3.5-inch hard drive

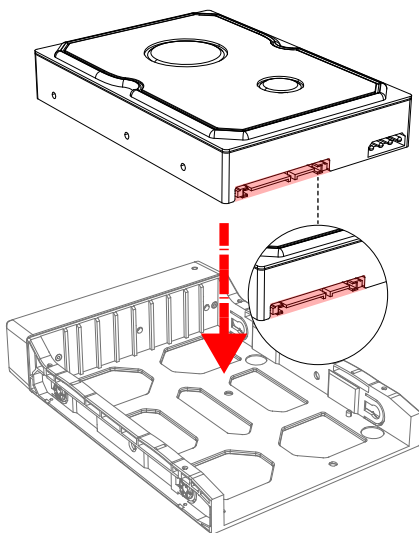
**A**

Remove the locking strips on both sides of the tray.



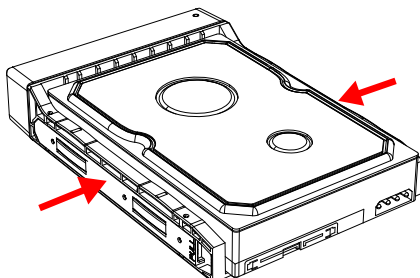
**B**

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.

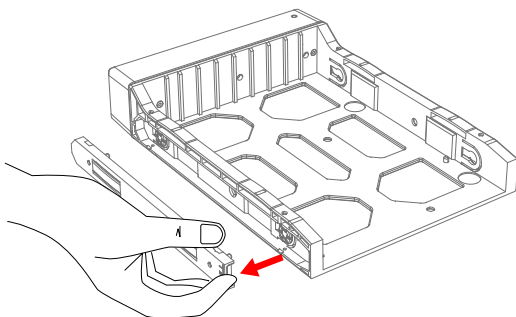




### 3 Installing a 2.5-inch hard drive

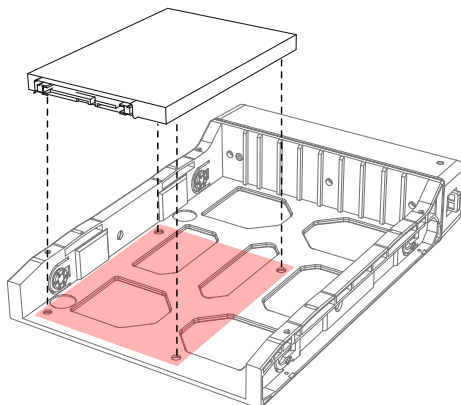
**A**

Remove the left-side locking strip of the tray.



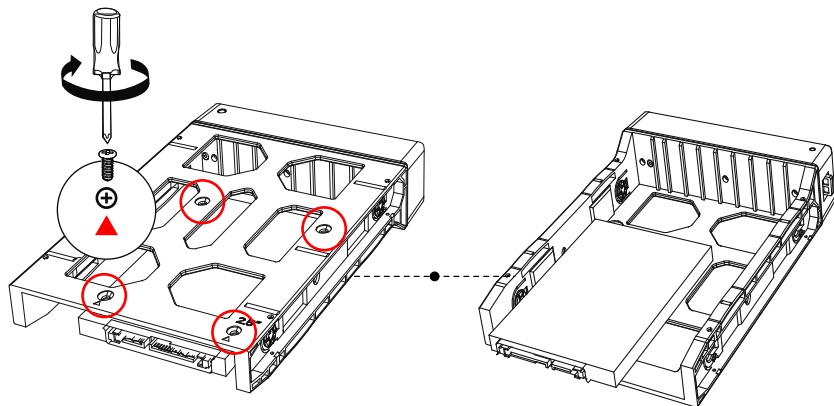
**B**

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



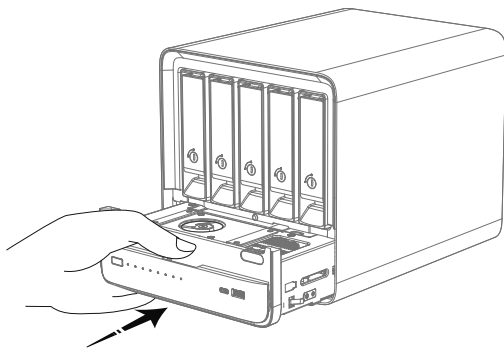
**C**

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

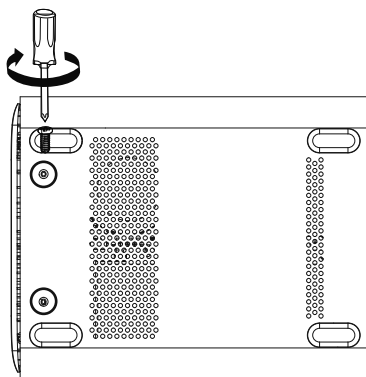


## 4 Get Started with Your NAS

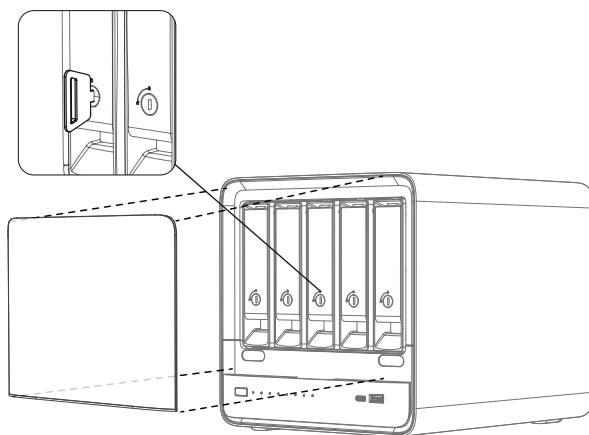
- 1 Ensure the core components of the motherboard are correctly inserted.



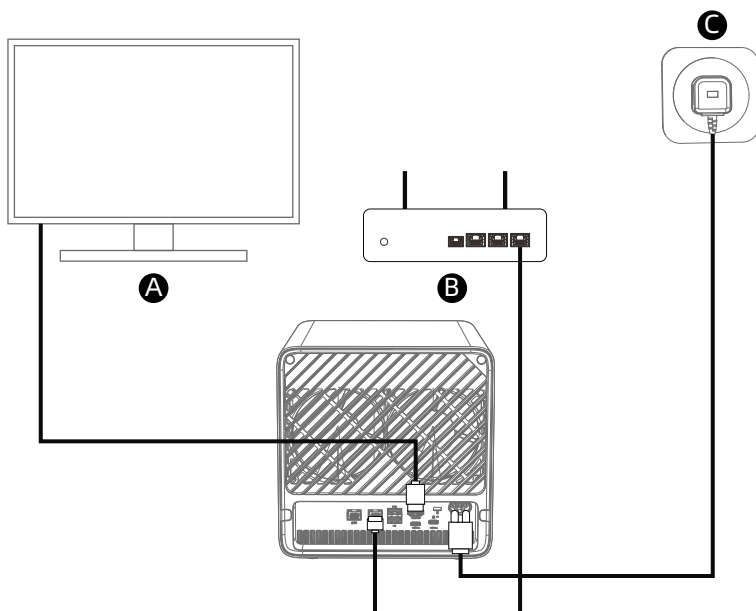
- 2 Lock the screw for the bottom core components of the motherboard.



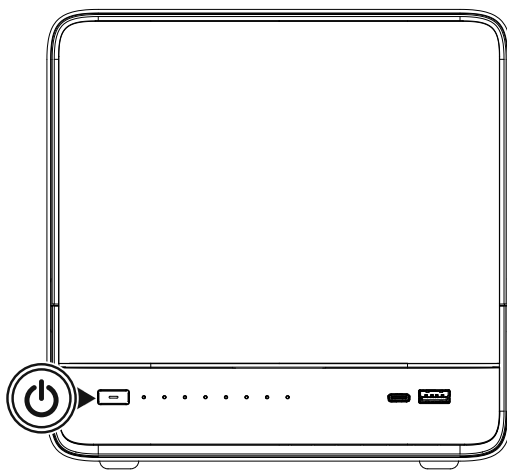
- 3 Ensure that the drive tray is properly inserted, then use the included drive bay key to lock the drive tray. Finally, reinstall the magnetic top cover.



- 4** Connect the monitor, network cable, and power cord.  
Note: \*No need to insert a monitor, as the NAS can run independently.



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



## FCC 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.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radiocommunications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Transmitters in the 5.925-7.125 GHz band are prohibited from operating to control or communicate with unmanned aircraft systems.

FCC regulations restrict the operation of this device to indoor use only. It is prohibited on oil platforms, cars, trains, boats, and aircraft, except it is permitted in large aircraft while flying above 10,000 feet.

This product is only suitable for indoor use only.

## **联系信息**

生产商： 深圳美高创新科技股份有限公司  
网址： <https://www.minisccloud.com>  
地址： 深圳市龙岗区平湖街道禾花社区富康路6号宝能智创谷B栋  
201-203、205-210、218-2、219-222  
电话： 0755-84659450

## **售后技术支持**

网址： <https://www.minisforum.com/new/support>  
电话： 400-090-9901

## **Contact information**

Manufacturer： Micro Computer (HK) Tech Limited  
Website： <https://www.minisccloud.com>  
Address： Unit 1908, 19/F, Tower 2, Grand Central Plaza, 138  
Shatin Rural Committee Road, Shatin, N.T., H.K  
TEL： 852-23860910

## **Online Technical Support**

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Email： [support@minisforum.com](mailto:support@minisforum.com)