



TS-x62A

TS-262A

TS-462A

User Guide

Contents

1. Important Information

Safety information.....	3
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2. Product Overview

About the TS-x62A.....	6
Hardware specifications.....	6
Package contents.....	10
Components.....	11
Front panel.....	11
Rear panel.....	13
System board.....	15
Drive numbering.....	16
Installation requirements.....	17
Setting up the NAS.....	17

3. Installation and Configuration

Hardware installation.....	19
Drive installation.....	19
Replacing memory modules.....	35
Connecting USB expansion units.....	41
QTS installation.....	43
Initializing QTS using Qfinder Pro.....	43
Initializing QTS using the cloud installation website.....	47

4. Basic Operations

Power button.....	52
Reset button.....	52
USB One Touch Copy button.....	53
LEDs.....	53
Audio alerts.....	56

5. NAS Migration

NAS migration requirements.....	58
Status and setting changes after NAS migration.....	58
Migrating a NAS.....	60
Migrating NAS data using HBS 3.....	60
Preparing the destination NAS.....	61
Creating a one-way sync job.....	61
Importing local users or group settings to the destination NAS.....	63

6. Troubleshooting

Forcing Qfinder Pro or myQNAPcloud to locate the NAS.....	65
Hot-swapping failed drives.....	65
Recovering unintentionally removed hard drives.....	66

Support and other resources.....	66
7. Glossary	
Cloud Key.....	68
myQNAPcloud.....	68
myQNAPcloud Link.....	68
Qfinder Pro.....	68
QNAP ID.....	68
QTS.....	68
8. Notices	
Limited warranty.....	69
Disclaimer.....	69
Copyright and trademarks.....	69
GNU General Public License.....	70
CE notice.....	79
UKCA notice.....	79
FCC notice.....	79
VCCI notice.....	80
BSMI notice.....	80
SJ/T 11364-2006.....	81

1. Important Information

Original Packaging

Please keep the original packaging and packaging materials. If you want to return the product or send it for repairs, please use the original packaging to avoid damage.

QNAP reserves the right not to provide a refund or warranty service for products that are damaged due to improper packaging.

Hardware Defects

If your QNAP product has hardware defects, return the product to QNAP or a QNAP-authorized service center for maintenance or replacement. Any attempt to repair or perform maintenance procedures on the product by you or an unauthorized third party invalidates the warranty.

QNAP is not responsible for any damage or data loss caused by unauthorized modifications and installation of unsupported third-party applications.

For details, see the [QNAP Warranty Terms and Conditions](#).

Safety information

The following instructions help ensure personal safety and environmental safety. Read these instructions carefully before performing any operation.

General Instructions

WARNING



- To avoid potential injury or damage to components, ensure that the drives and other internal system components have cooled before touching them.
- Always ensure that all drive trays, including empty ones, are properly installed in the device. Missing trays can alter the intended airflow, potentially causing internal components to overheat.



Observe electrostatic discharge (ESD) procedures to avoid potential injury or damage to components.

Power

WARNING



To reduce the risk of fire or electric shock, ensure that you only connect the power cord to a properly grounded electrical outlet.



To avoid serious injuries, a trained service technician must disconnect all PSU cords from the device before installing or replacing system components.

Moving Parts

WARNING



Moving fan blades: Keep your body parts away from any moving fan blades while the device is connected to a power source.



Moving components: Keep your body parts away from any other moving components.

The device is not suitable for use in locations where children are likely to be present.

System Battery

WARNING



INGESTION HAZARD

- This product may contain a button battery.
- Keep batteries out of reach of children.
- If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours.
- If you think batteries may have been swallowed or placed inside any part of the body, seek immediate medical attention.

- To avoid potential battery explosion, causing injury or damage to components, ensure that you replace the existing battery with a battery of the same type.
- Dispose of used batteries properly according to local regulations or the instructions of the battery manufacturer.

- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- For information on the type and voltage of the button battery in your device, please see the hardware specification table.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat, or incinerate. Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, or different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

2. Product Overview

This chapter provides basic information about your QNAP device.

About the TS-x62A

The TS-x62A is a compact and quiet NAS series powered by an Intel® Celeron® N5095 quad-core processor. It supports up to two M.2 SSDs for flexible performance and storage options, and includes a 2.5 GbE port for fast file access and data transfers. With upgradable DDR4 memory up to 16 GB, two USB 3.2 Gen 2 ports, two USB 2.0 ports, and support for USB One Touch Copy, the TS-x62A offers efficient storage, backup, and file sharing capabilities.

Hardware specifications

Warning

If your QNAP product has hardware defects, return the product to QNAP or a QNAP-authorized service center for maintenance or replacement. Any attempt to repair or perform maintenance procedures on the product by you or an unauthorized third party invalidates the warranty.

QNAP is not responsible for any damage or data loss caused by unauthorized modifications and installation of unsupported third-party applications.

For details, see the [QNAP Warranty Terms and Conditions](#).

Tip

Model specifications are subject to change without prior notice. To see the latest specifications, go to <https://www.qnap.com>.

Ordering P/N	Pre-installed memory	Drive bays
TS-262A-4G	4 GB RAM	2
TS-262A-8G	8 GB RAM	
TS-462A-4G	4 GB RAM	4
TS-462A-8G	8 GB RAM	

Component	TS-262A-4G TS-262A-8G	TS-462A-4G TS-462A-8G
Processor		
CPU	Intel® Celeron® N5095	

Component	TS-262A-4G TS-262A-8G	TS-462A-4G TS-462A-8G
Frequency	4-core/4-thread 2.00 GHz base/2.90 GHz burst	
Architecture	x86 64-bit	
Encryption engine	AES-NI	
Graphics	Intel® UHD Graphics	
Memory		
Pre-installed memory	• TS-262A-4G : 4 GB RAM: 1 x 4 GB DDR4 SODIMM • TS-262A-8G: 8 GB RAM: 1 x 8 GB DDR4 SODIMM	• TS-462A-4G: 4 GB RAM: 1 x 4 GB DDR4 SODIMM • TS-462A-8G: 8 GB RAM: 1 x 8 GB DDR4 SODIMM
Memory slots	2 x DDR4 SODIMM Important • Use only QNAP memory modules to maintain system performance and stability. For NAS devices with more than one memory slot, use QNAP modules with identical specifications. • Using unsupported modules may degrade performance, cause errors, or prevent the operating system from starting.	
Maximum memory	16 GB RAM: 2 x 8 GB	
Flash memory	4 GB (dual-boot OS protection)	
Storage		
Drive bays	2 x 3.5-inch SATA 6 Gbps	4 x 3.5-inch SATA 6 Gbps

Component	TS-262A-4G TS-262A-8G	TS-462A-4G TS-462A-8G
Drive compatibility	• 3.5-inch SATA hard disk drives • 2.5-inch SATA solid-state drives Note You can purchase tray bases from QNAP or an authorized reseller. For details, go to https://shop.qnap.com/.	
M.2 SSD slots	2 x M.2 2280 PCIe Gen 3 x1	
M.2 SSD form factor	2280 Note Any heatsink installed on an M.2 SSD must not exceed dimensions of 68 x 20 x 10 mm (L x W x H).	
SSD cache acceleration support	This device supports SSD cache acceleration for all drives.	
Hot-swapping	The device supports hot-swapping drives except for the following: M.2 SSDs	
Network		
2.5 Gigabit network interface	1 x 2.5 GbE RJ45 Note The 2.5 Gigabit Ethernet RJ45 port supports the following network connectivity speeds: 2.5 GbE, 1 GbE, 100 Mb, and 10 Mb.	
External I/O Ports & Expansion Slots		

Component	TS-262A-4G TS-262A-8G	TS-462A-4G TS-462A-8G
USB ports	• Front: • 1 x USB 3.2 Gen 2 Type-A Note This USB port supports One Touch Copy. • Rear: • 1 x USB 3.2 Gen 2 Type-A • 2 x USB 2.0 Gen 1 Type-A	
Interface		
Buttons	• Power • Reset • USB One Touch Copy	
LEDs		
System	• System power and status • LAN • USB One Touch Copy • Drive	
Ports	• Speed • Activity	
Dimensions		
Form factor	Tower	
Dimensions (H x W x D)	168 x 105 x 226 mm (6.61 x 4.13 x 8.90 in)	168 x 170 x 226 mm (6.61 x 6.69 x 8.90 in)
Net weight	1.61 kg (3.55 lbs)	2.34 kg (5.16 lbs)
Others		

Component	TS-262A-4G TS-262A-8G	TS-462A-4G TS-462A-8G
Power supply unit	48W, 100-240V AC, 50/60 Hz	65W, 100-240V AC, 50/60 Hz
System battery	CR2032 lithium battery (3V, 225 mAh) Warning • This battery is a button battery. If swallowed, a lithium button battery can cause severe or fatal injuries within 2 hours. Keep batteries out of reach of children. • To avoid potential battery explosion, causing injury or damage to components, ensure that you replace the existing battery with a battery of the same type. Important Dispose of used batteries according to local regulations or the instructions of the battery manufacturer.	
Fans	1 x 70 mm, 12V DC smart fan	1 x 120 mm, 12V DC smart fan
Operating temperature	0°C to 40°C (32°F to 104°F)	
Relative humidity	• Non-condensing relative humidity: 5% to 95% • Wet-bulb temperature: 27°C (80.6°F)	
Security slot	Kensington security slot	

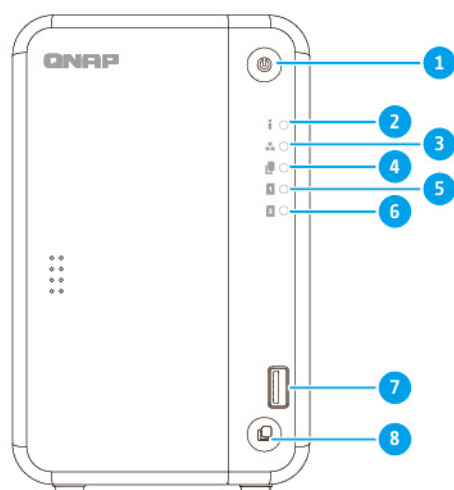
Package contents

Item	Quantity
TS-262A / TS-462A	1
Drive trays	• TS-262A: 2 • TS-462A: 4

Item	Quantity
Screws for 2.5-inch drives	• TS-262A: 8 • TS-462A: 16
Screws for 3.5-inch drives	• TS-262A: 8 • TS-462A: 16
AC power adapter	1
Power cord	1
Cat5e Ethernet cable	1
Note The Cat5e Ethernet cable supports transfer speeds of up to 2.5 Gbps.	
Quick Installation Guide (QIG)	1

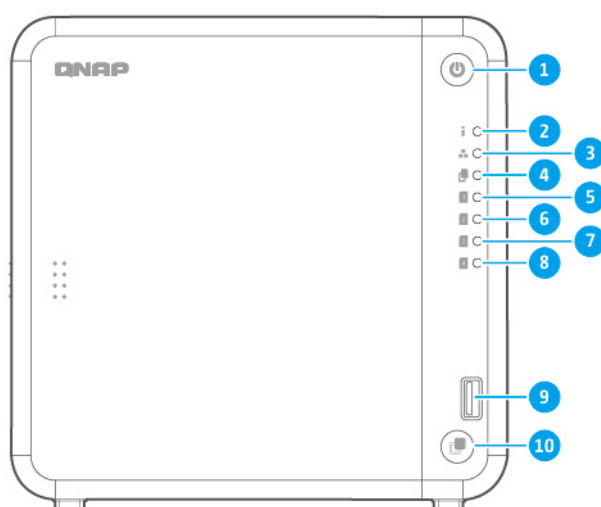
Components

Front panel



TS-262A

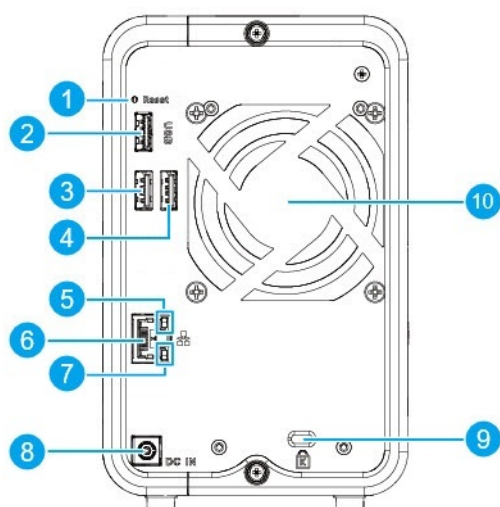
No.	Component	No.	Component
1	Power button	5	Drive 1 LED
2	System status and power LED	6	Drive 2 LED
3	LAN LED	7	USB port 1: USB 3.2 Gen 2 One Touch Copy Type-A port
4	USB One Touch Copy LED	8	USB One Touch Copy button



TS-462A

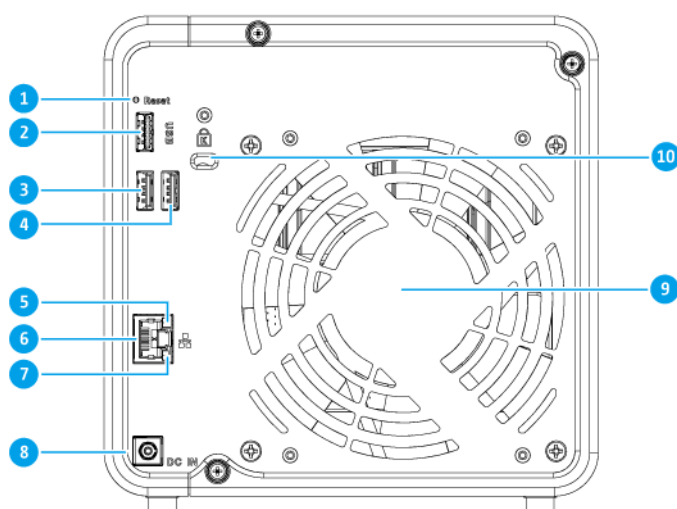
No.	Component	No.	Component
1	Power button	6	Drive 2 LED
2	System status and power LED	7	Drive 3 LED
3	LAN LED	8	Drive 4 LED
4	USB One Touch Copy LED	9	USB port 1: USB 3.2 Gen 2 One Touch Copy Type-A port
5	Drive 1 LED	10	USB One Touch Copy button

Rear panel



TS-262A

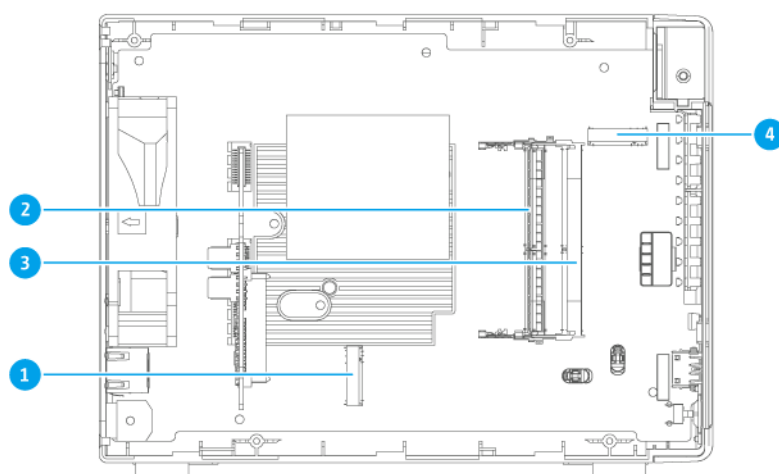
No.	Component	No.	Component
1	Reset button	6	2.5 Gigabit Ethernet port (RJ45)
2	USB port 2: USB 3.2 Gen 2 Type-A port	7	2.5 Gigabit Ethernet speed LED
3	USB port 3: USB 2.0 Type-A port	8	Power input
4	USB port 4: USB 2.0 Type-A port	9	Kensington security slot
5	2.5 Gigabit Ethernet activity LED	10	System fan



TS-462A

No.	Component	No.	Component
1	Reset button	6	2.5 Gigabit Ethernet port (RJ45)
2	USB port 2: USB 3.2 Gen 2 Type-A port	7	2.5 Gigabit Ethernet speed LED
3	USB port 3: USB 2.0 Type-A port	8	Power input
4	USB port 4: USB 2.0 Type-A port	9	System fan
5	2.5 Gigabit Ethernet activity LED	10	Kensington security slot

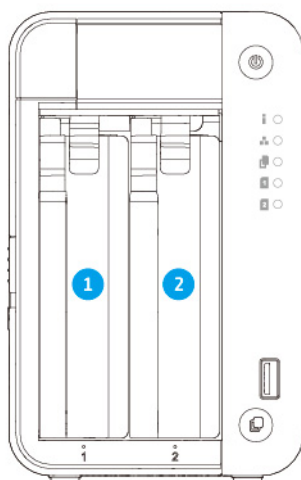
System board

**Note**

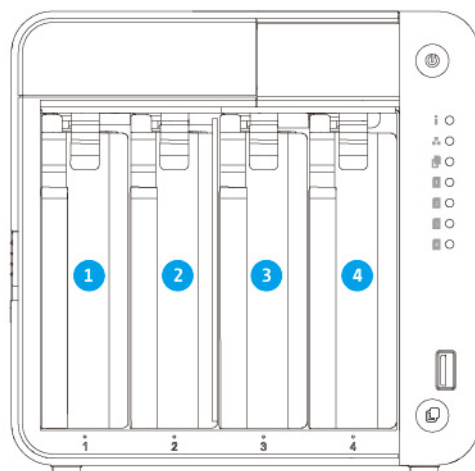
This image does not include the chassis.

No.	Component	No.	Component
1	M.2 SSD slot 1	3	Memory slot 2 (Channel B, DIMM 1, black)
2	Memory slot 1 (Channel A, DIMM 1, black)	4	M.2 SSD slot 2

Drive numbering



TS-262A



TS-462A

Installation requirements

Category	Item
Environment	- Room temperature: 0°C to 40°C (32°F to 104°F) - Non-condensing relative humidity: 5% to 95% - Wet-bulb temperature: 27°C (80.6°F) - Flat, anti-static surface without exposure to direct sunlight, liquids, or chemicals - Free from objects that may obstruct device ventilation or apply pressure to the device or power cord
Hardware and peripherals	- Storage drives For the list of compatible drive models, go to https://www.qnap.com/compatibility. - Network cable
Tools	- Flat head screwdriver - Anti-static wrist strap

Setting up the NAS

Important

Read all safety requirements and information carefully before setting up the NAS or installing NAS components.

1. Place your NAS device in an environment that meets the requirements.
For details, see [Installation requirements](#).
2. Install drives.
For details, see the following topics:
 - [Installing 2.5-inch drives](#)
 - [Installing 3.5-inch drives](#)
 - [Installing M.2 solid-state drives](#)
3. Optional: Connect expansion units.
For details, see [Connecting USB expansion units](#).
4. Connect the power cord and all applicable cables.
5. Power on the NAS.

- 6.** Install QTS.
For details, see [QTS installation](#).
- 7.** Log on to QTS.

3. Installation and Configuration

This chapter provides specific hardware and firmware installation and configuration steps.

Warning

Always ensure that all drive trays, including empty ones, are properly installed in the device. Missing trays can alter the intended airflow, potentially causing internal components to overheat.

Hardware installation

This section provides information on installing drives, replacing memory modules, and connecting expansion units.

Drive installation

The NAS is compatible with 3.5-inch hard drives, 2.5-inch solid-state drives, and M.2 solid-state drives.

Installing 2.5-inch drives

Warning

- Installing a drive deletes all data on the drive.



Moving fan blades: Keep your hands and other body parts away from moving fan blades.

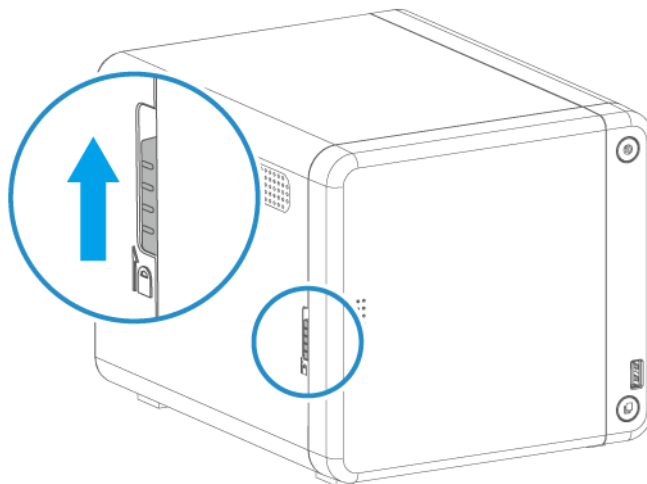


Other moving components: Keep your hands and other body parts away from other moving components.

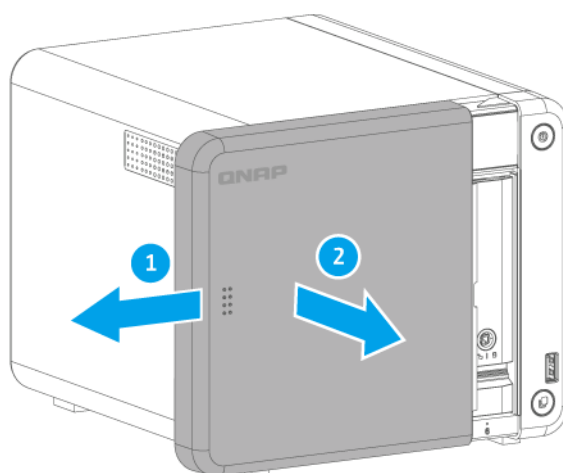
- Observe electrostatic discharge (ESD) procedures to avoid damage to components.

1. Power off the device.
2. Remove the front cover.
 - a. Locate the locking mechanism on the left side of the device.

- b.** Slide the lock up to release the front cover.

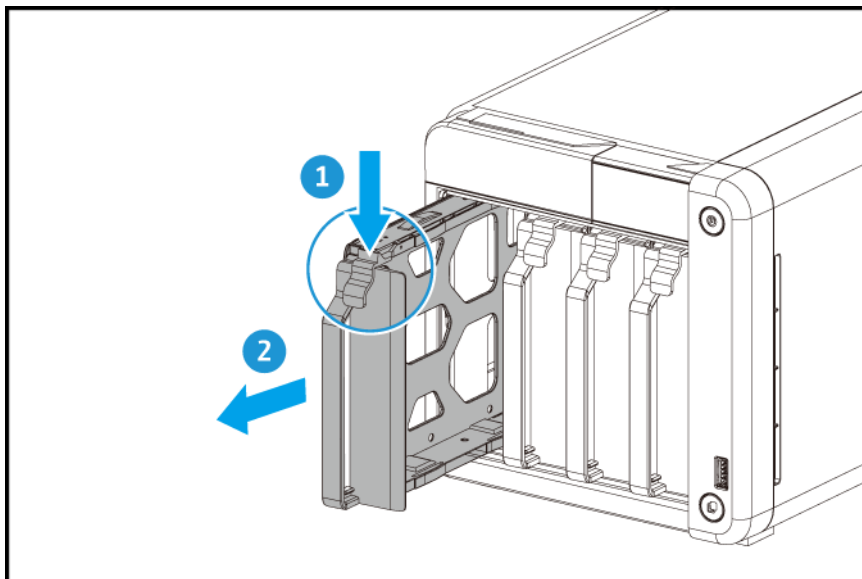


- c.** Slide the front cover to the left and then pull.



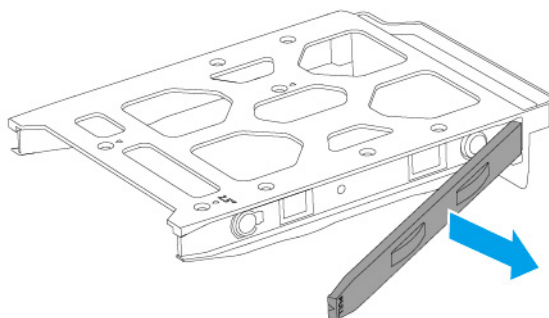
3. Remove the drive tray.

- a.** Remove a drive tray by simultaneously pressing the latch and pulling the tray.



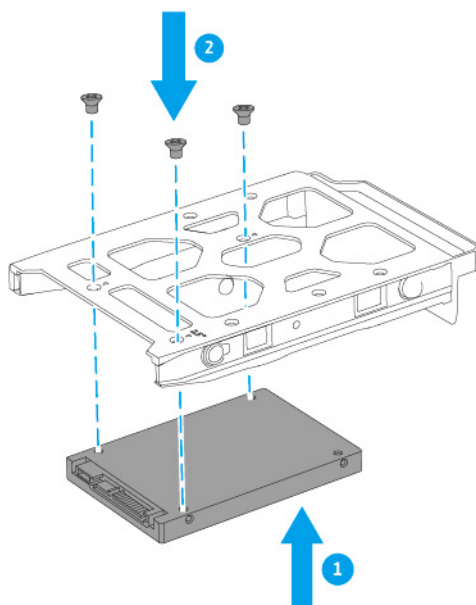
4. Install a drive on the tray.

- a.** Remove the right fastening panel from the drive tray.

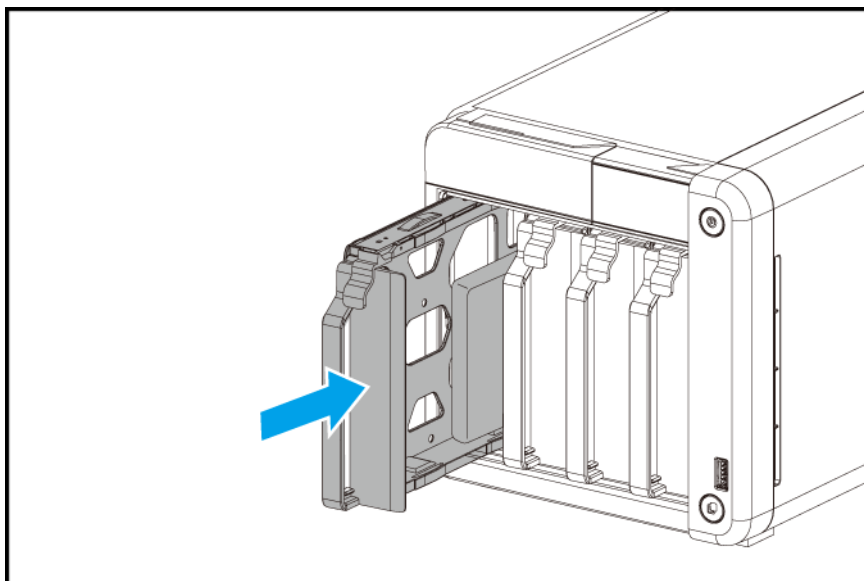


- b.** Place the drive on the tray so that the holes on the bottom of the drive are aligned with the holes on the bottom of the tray.

c. Attach the screws.

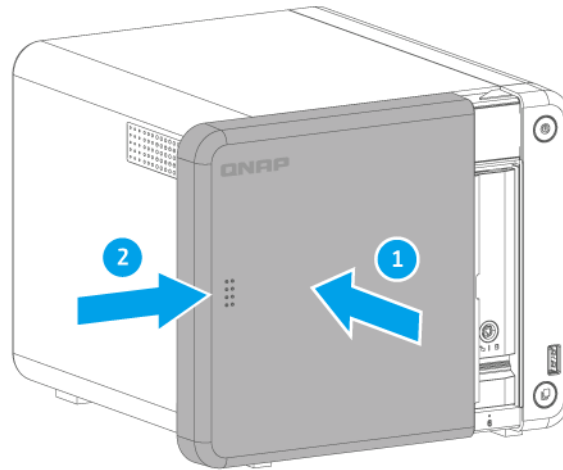


5. Insert the tray into the bay.

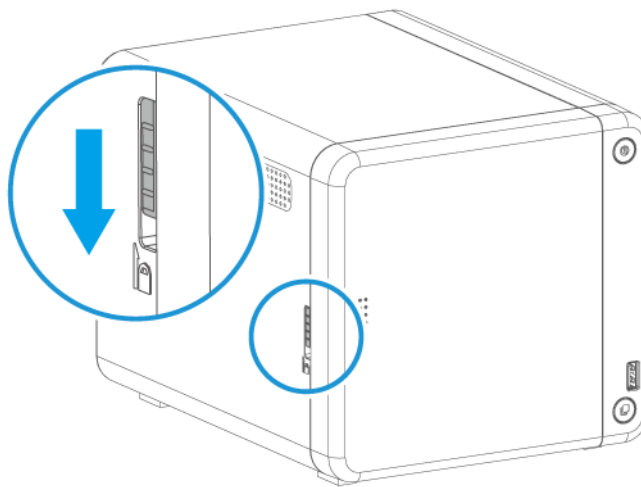


6. Attach the front cover.

- a.** Align the front cover with the grooves on the case and then slide to the right.



- b.** Slide the lock down to secure the front cover.



7. Power on the device.

Installing 3.5-inch drives

Warning

- Installing a drive deletes all data on the drive.



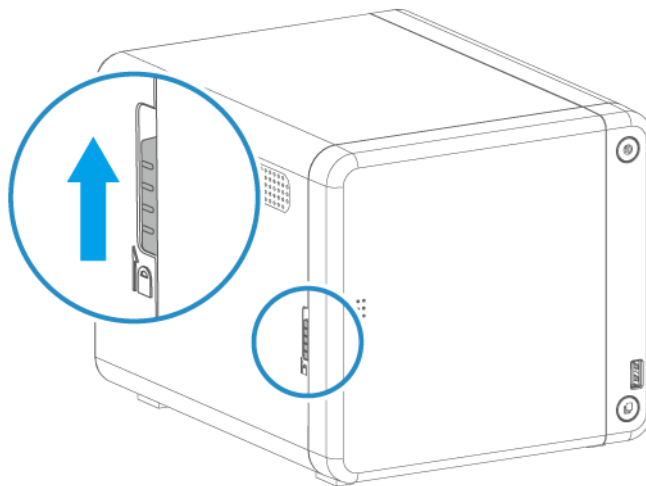
Moving fan blades: Keep your hands and other body parts away from moving fan blades.



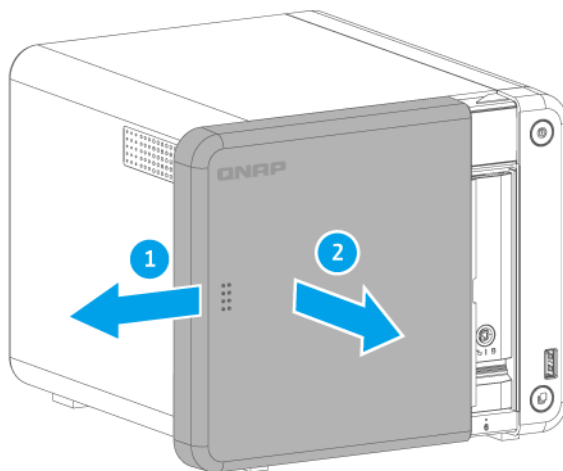
Other moving components: Keep your hands and other body parts away from other moving components.

- Observe electrostatic discharge (ESD) procedures to avoid damage to components.

1. Power off the device.
2. Remove the front cover.
 - a. Locate the locking mechanism on the left side of the device.
 - b. Slide the lock up to release the front cover.

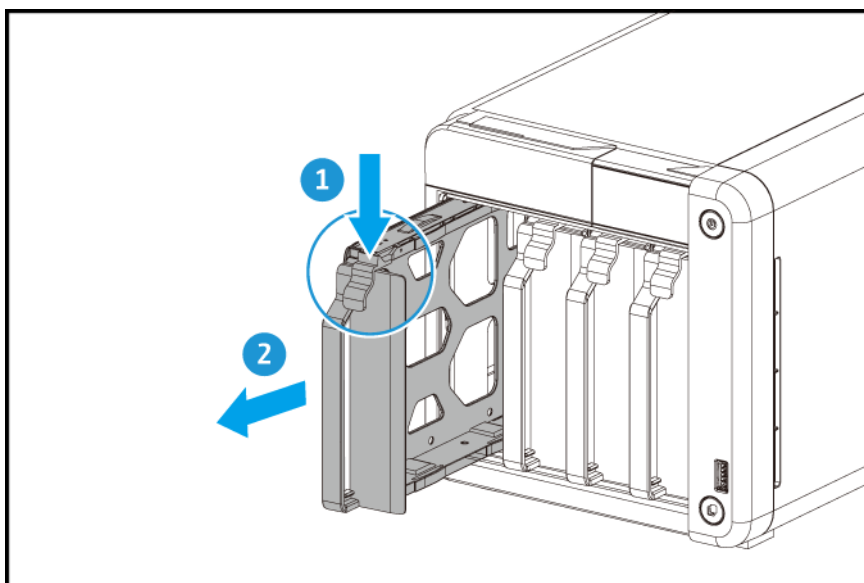


- c. Slide the front cover to the left and then pull.



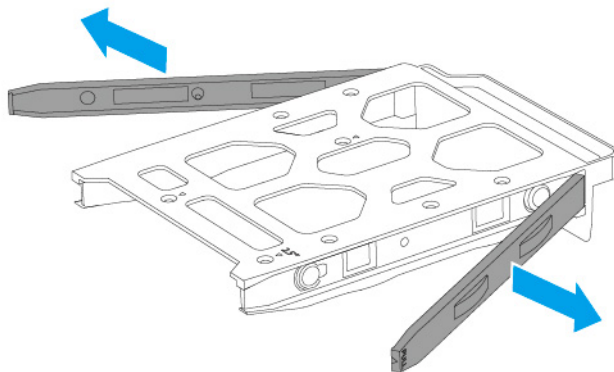
3. Remove the drive tray.

- a. Remove a drive tray by simultaneously pressing the latch and pulling the tray.



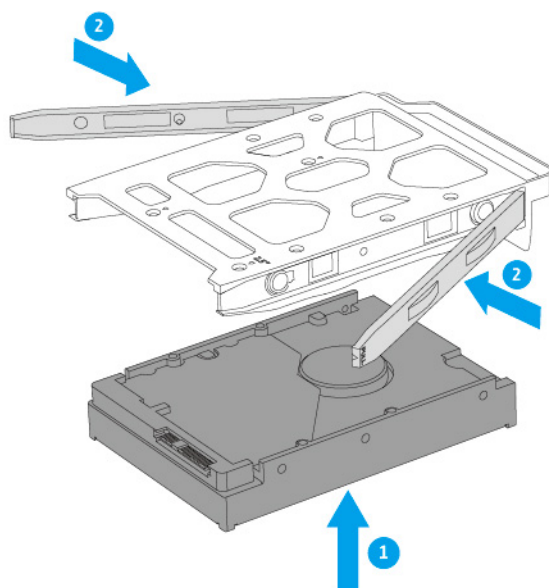
4. Install a drive on the tray.

- a.** Remove the fastening panels from the sides of the drive tray.

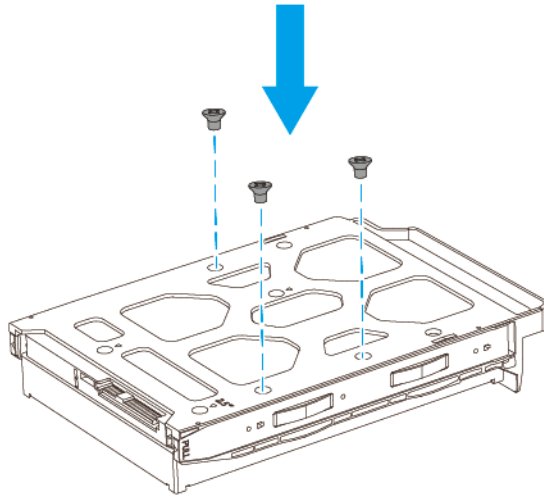


- b.** Place the drive on the tray so that the holes on the bottom of the drive are aligned with the holes on the bottom of the tray.

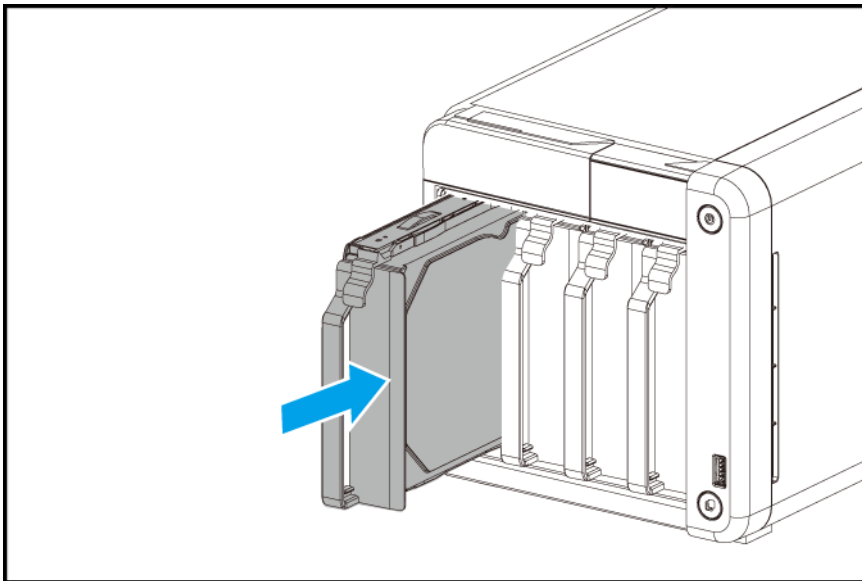
- c.** Attach the fastening panels to lock the drive to the tray.



- d.** Optional: Attach the screws to further secure the drive.

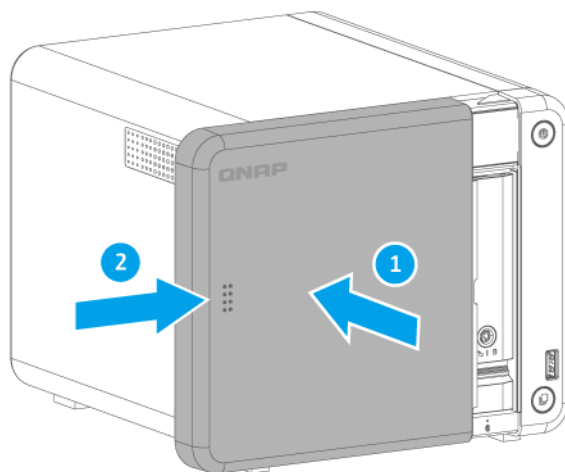


- 5.** Insert the tray into the bay.

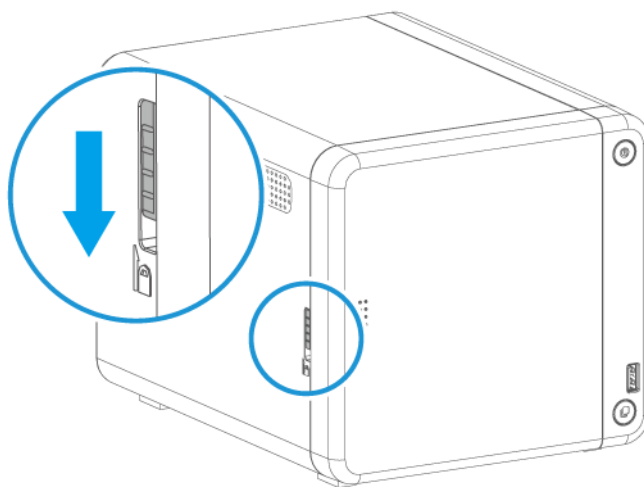


6. Attach the front cover.

- a.** Align the front cover with the grooves on the case and then slide to the right.



- b.** Slide the lock down to secure the front cover.



7. Power on the device.

Installing M.2 solid-state drives

Warning

- Only qualified personnel should perform the following steps. Failure to follow instructions can result in serious injury or death.



Moving fan blades: Keep your hands and other body parts away from moving fan blades.



Other moving components: Keep your hands and other body parts away from other moving components.

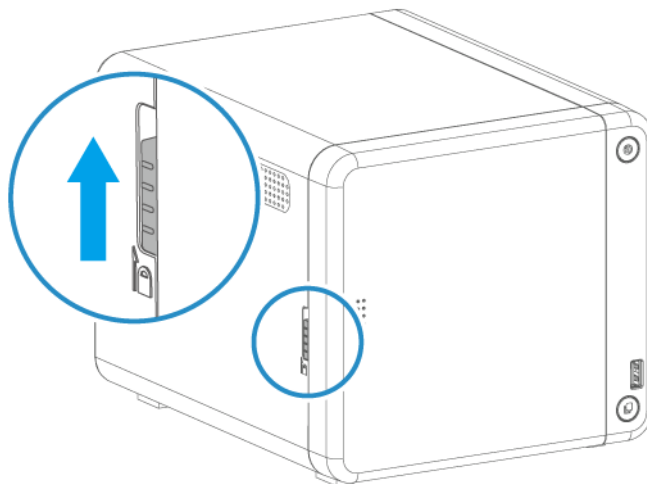
- Observe electrostatic discharge (ESD) procedures to avoid damage to components.

Important

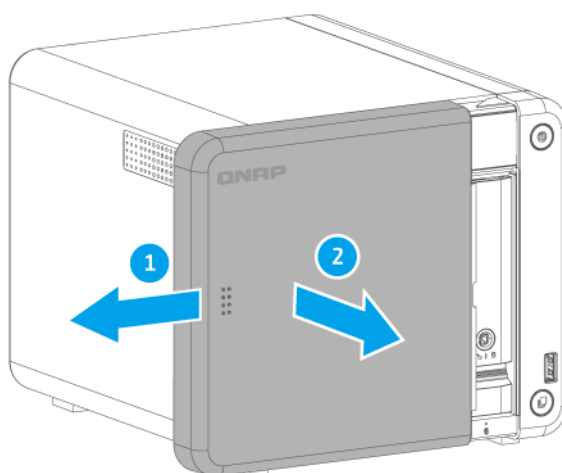
- The NAS has two M.2 SSD slots. For a list of compatible M.2 SSDs, go to <https://www.qnap.com/compatibility>.
- QNAP recommends installing heatsinks on the M.2 SSD controllers to enhance cooling efficiency and to ensure consistent performance.
- Before installing non-QNAP heatsinks, ensure that they are of the appropriate size and shape.
- Heatsinks are not included with the NAS and must be purchased separately. For details, contact an authorized reseller or go to <https://shop.qnap.com/>.

1. Power off the device.
2. Disconnect the power cord from the electrical outlet.
3. Disconnect all cables and external attachments.
4. Remove the front cover.
 - a. Locate the locking mechanism on the left side of the device.

- b.** Slide the lock up to release the front cover.

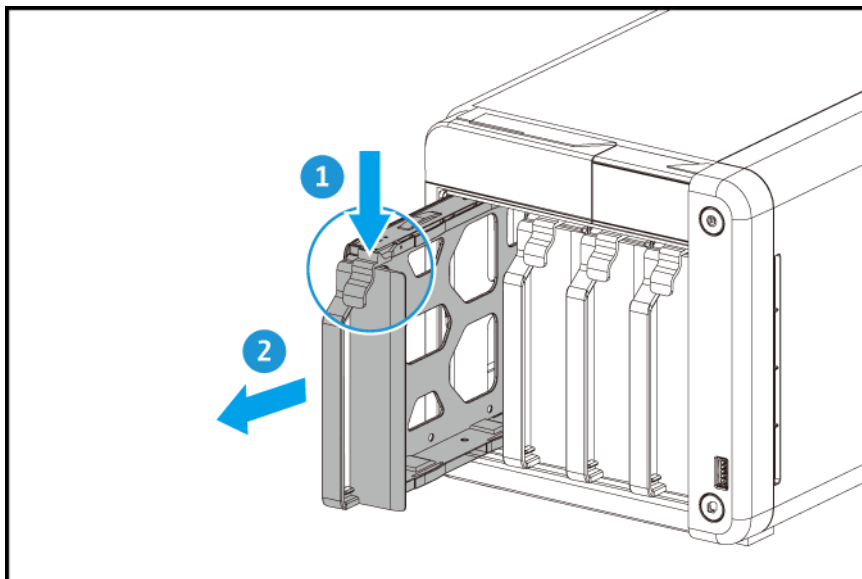


- c.** Slide the front cover to the left and then pull.



5. Remove each drive tray.

- a. Remove a drive tray by simultaneously pressing the latch and pulling the tray.



6. Optional: Install a heatsink on the M.2 SSD.

Note

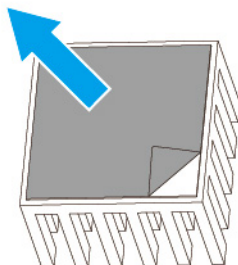
The heatsink must not exceed dimensions of 68 x 20 x 10 mm (L x W x H).

- a. Locate the controller on the M.2 SSD.

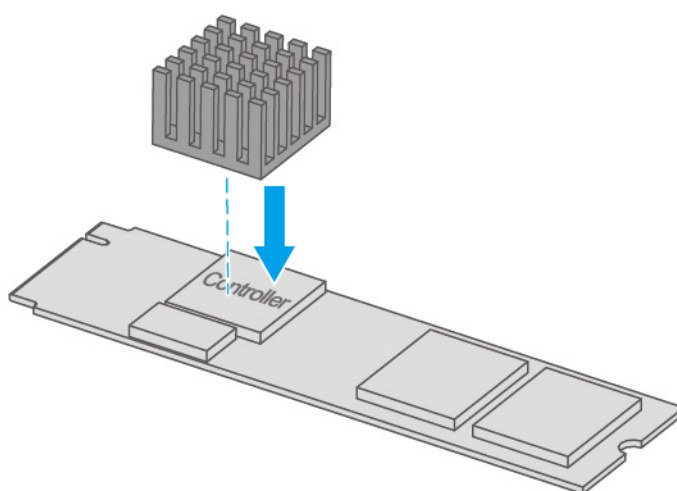
Note

The controller location varies depending on the model and manufacturer of the M.2 SSD.
For details, refer to the documentation or contact the manufacturer.

- b.** Remove the protective film from the heatsink.



- c.** Install the heatsink on the controller.



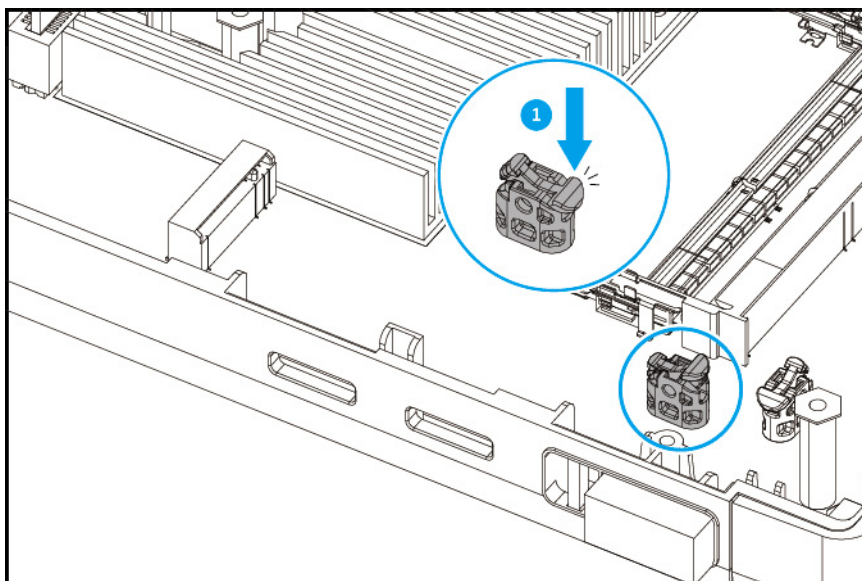
7. Install the M.2 SSD.

Note

The following installation images do not include the chassis.

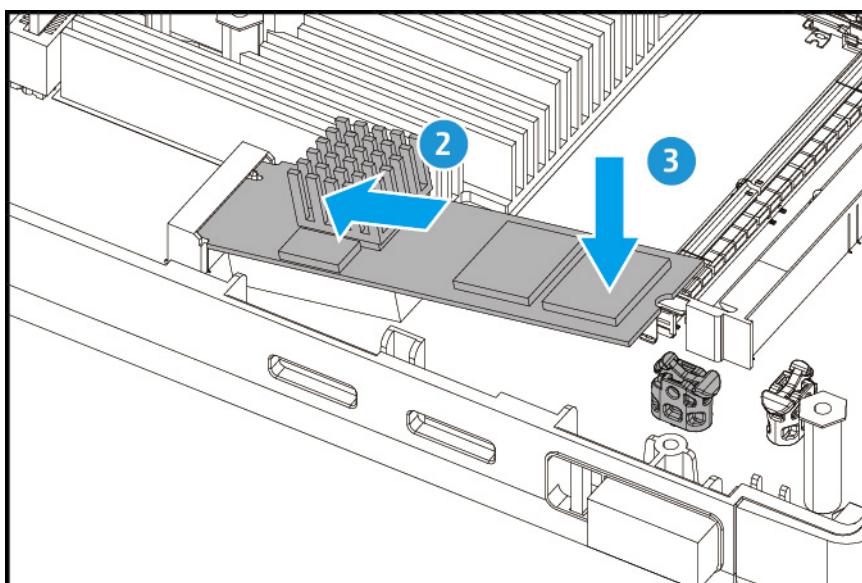
- a.** Place the device on its right side.

- b.** Unlock the M.2 spacer by pushing down on its edge.

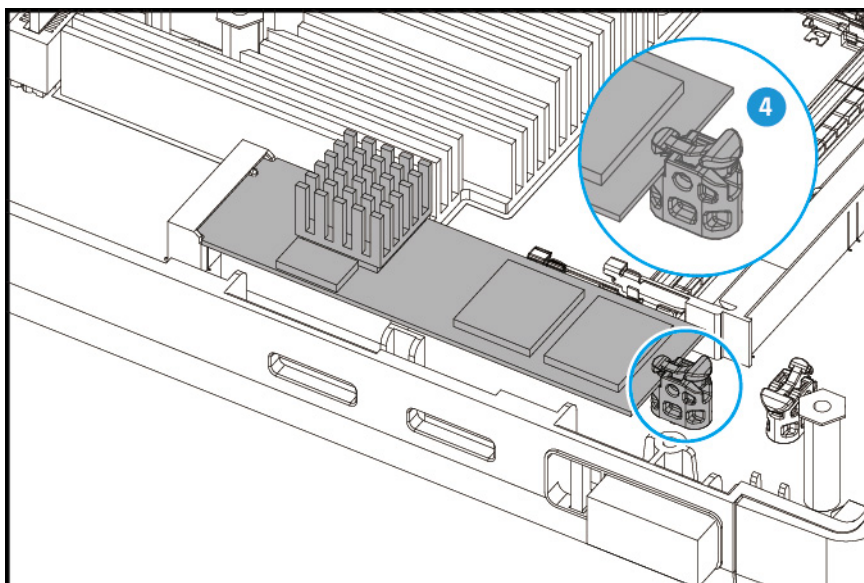


- c.** Insert the M.2 SSD into the slot.

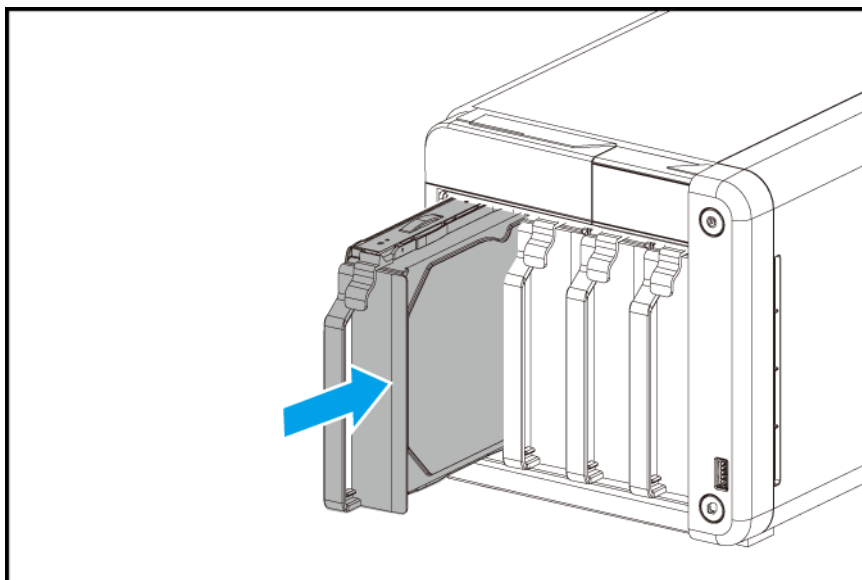
- d.** Carefully press the M.2 SSD down until the spacer locks the drive into place.



- e. Verify that the M.2 spacer is firmly locking the M.2 SSD into place.

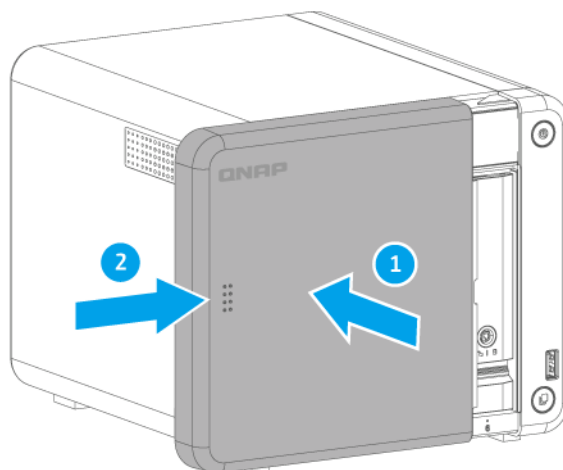


8. Optional: Install an additional M.2 SSD.
9. Place the device in its normal upright position.
10. Slide each drive tray back into the NAS.

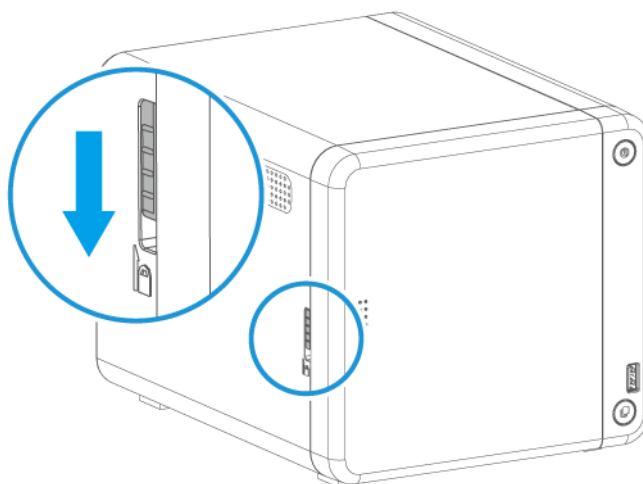


11. Attach the front cover.

- a.** Align the front cover with the grooves on the case and then slide to the right.



- b.** Slide the lock down to secure the front cover.

**12. Connect all cables and external attachments.****13. Connect the power cord to the electrical outlet.****14. Power on the device.**

Replacing memory modules

The TS-262A and TS-462A have two memory slots. You can increase the memory capacity of the NAS by upgrading the memory modules. When using two modules, use only QNAP modules of the same type and capacity to maintain system performance and stability. You can purchase QNAP memory modules from authorized resellers.

Warning

- Only qualified personnel should perform the following steps. Failure to follow instructions can result in serious injury or death.



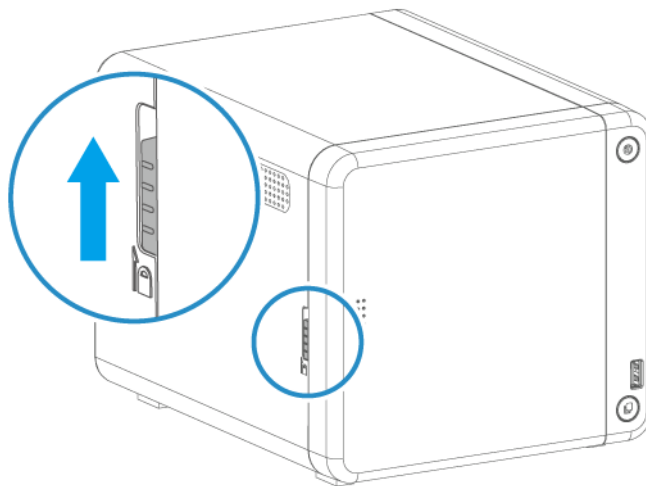
Moving fan blades: Keep your hands and other body parts away from moving fan blades.



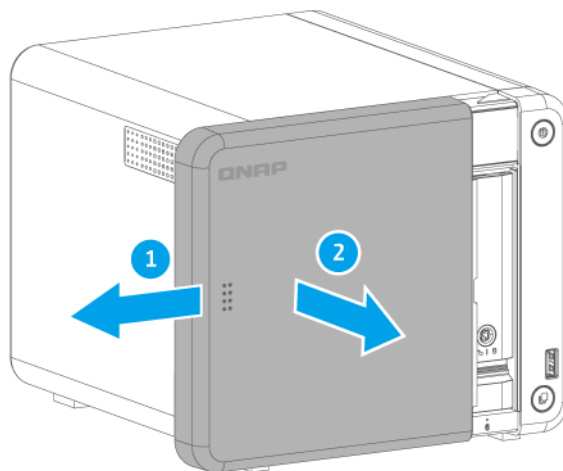
Other moving components: Keep your hands and other body parts away from other moving components.

- Observe electrostatic discharge (ESD) procedures to avoid damage to components.

1. Power off the device.
2. Disconnect the power cord from the electrical outlet.
3. Disconnect all cables and external attachments.
4. Remove the front cover.
 - a. Locate the locking mechanism on the left side of the device.
 - b. Slide the lock up to release the front cover.

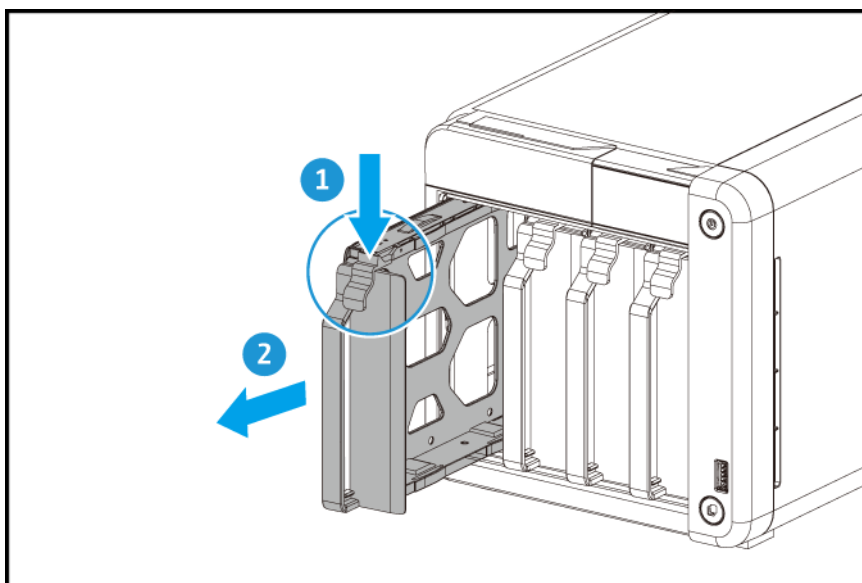


- c. Slide the front cover to the left and then pull.



5. Remove each drive tray.

- a. Remove a drive tray by simultaneously pressing the latch and pulling the tray.



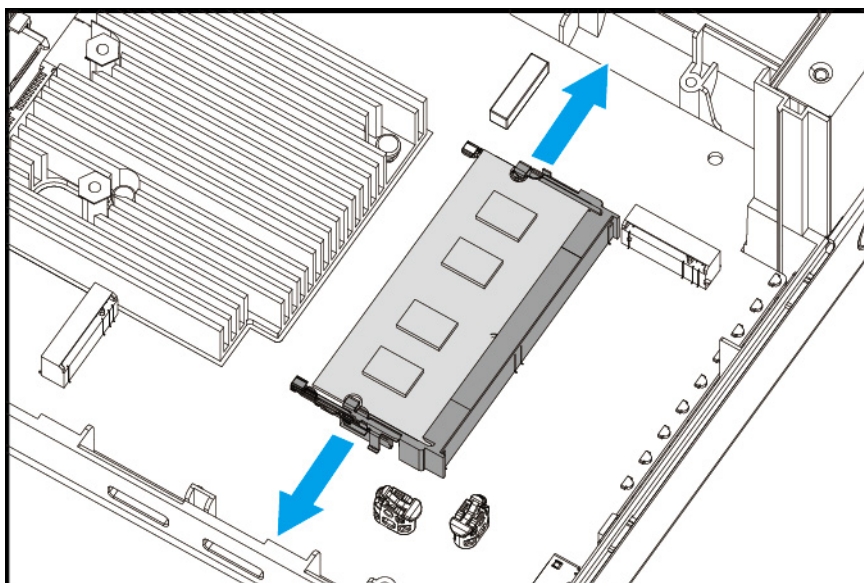
6. Remove an existing module.

Note

The following installation images do not include the chassis.

- a. Place the device on its right side.

- b.** Push the retention clips outward simultaneously to release the module.



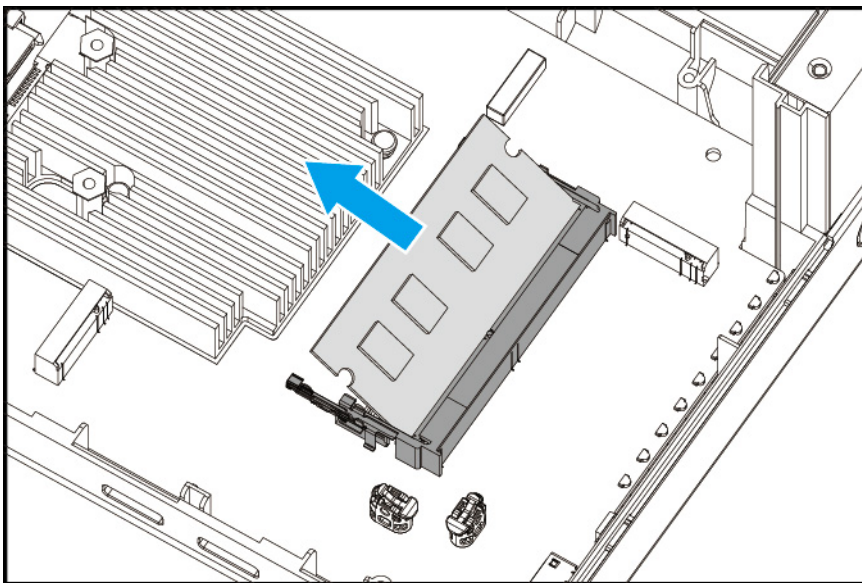
- c.** Verify that the module has tilted upward and is completely released from the slot.

Warning

Attempting to remove a module that is not completely released may damage the module and the system board.

- d.** Hold the module by the edges.

- e. Carefully slide the module out of the slot.

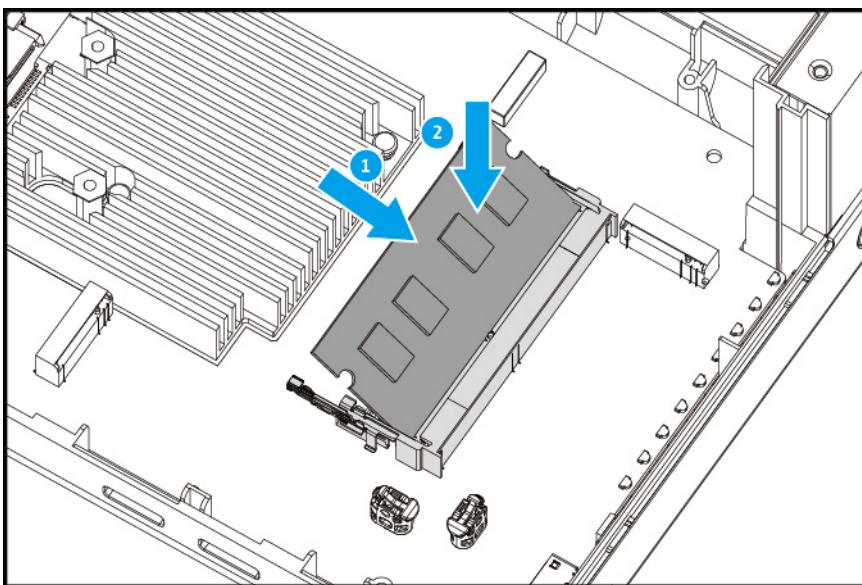


Warning

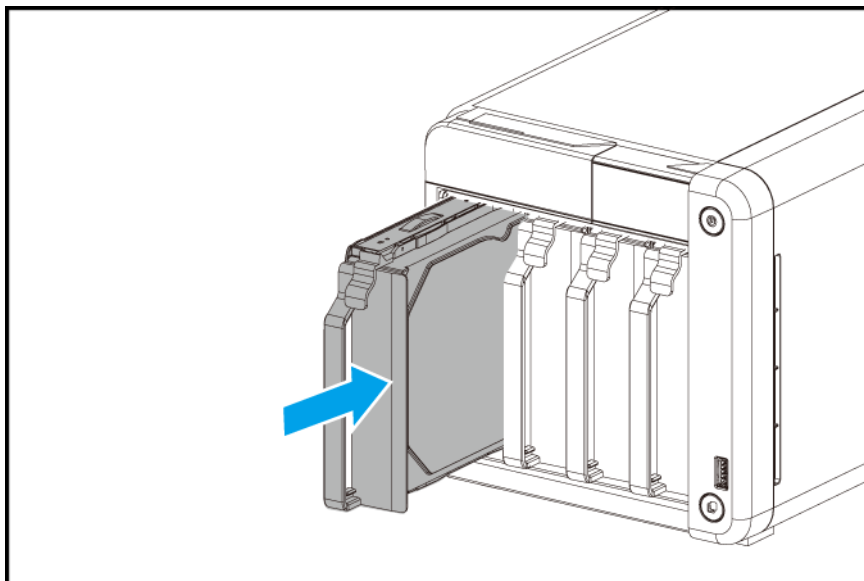
- Do not touch the internal components, particularly the metal connectors.
- Do not bend the module.

7. Install a new module.

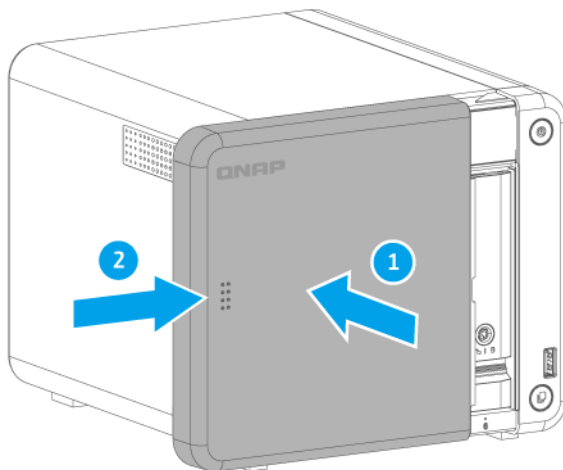
- a. Align the notch with the ridge in the slot.
- b. Insert the module into the slot.
- c. Verify that the metal connectors are completely inserted into the slot.
- d. Carefully press down on the module until the retention clips lock the module into place.



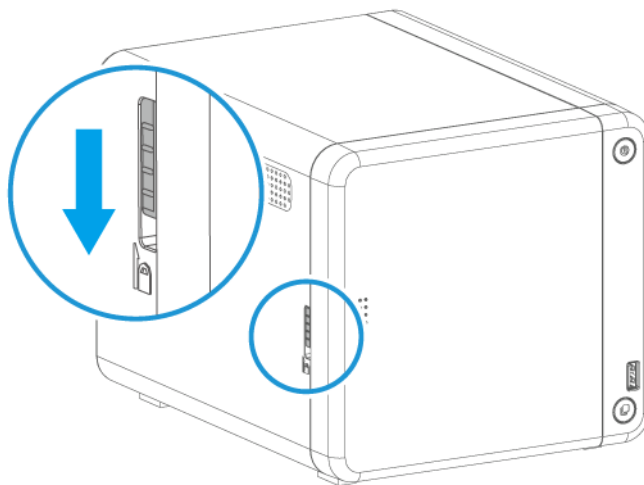
8. Place the device in its normal upright position.
9. Slide each drive tray back into the NAS.



10. Attach the front cover.
 - a. Align the front cover with the grooves on the case and then slide to the right.



- b. Slide the lock down to secure the front cover.



11. Connect all cables and external attachments.
12. Connect the power cord to the electrical outlet.
13. Power on the device.
14. Verify that the module is recognized by the device.
 - a. Log on to QTS as an administrator.
 - b. Go to **Control Panel > System > System Status > Hardware Information**.
 - c. Check the value for **Total memory**.

Connecting USB expansion units

The NAS supports USB expansion units. For details, see the table below.

You can purchase storage expansion accessories from QNAP or an authorized reseller.

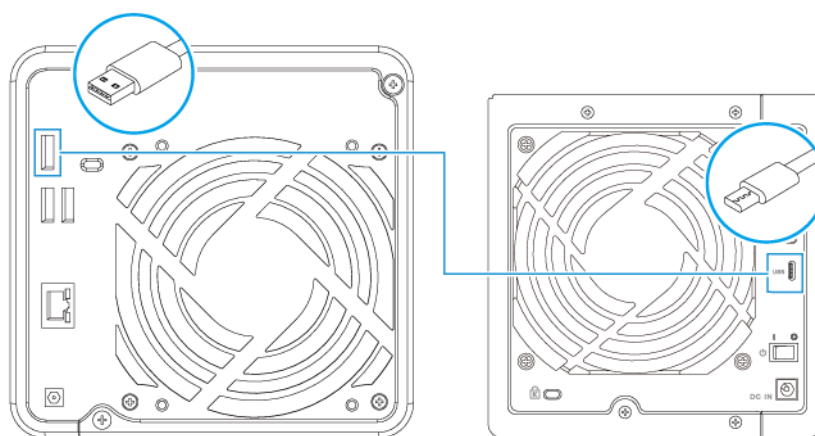
For details, go to <https://shop.qnap.com/>.

For the list of compatible expansion units and the maximum number of applicable expansion units, go to <https://www.qnap.com/go/compatibility-expansion>.

Expansion Unit Model	Description	Required Accessories
TR-002	• Uses a USB 3.2 Gen 2 Type-C interface • Supports SATA HDD/SDD	USB 3.2 Gen 2 Type-A to Type-C cable

Expansion Unit Model	Description	Required Accessories
TR-004	• Uses a USB 3.2 Gen 1 Type-C interface • Supports SATA HDD/SDD	USB 3.2 Gen 2 Type-A to Type-C cable
TL-D800C	• Uses a USB 3.2 Gen 2 Type-C interface • Supports SATA HDD/SDD	USB 3.2 Gen 2 Type-A to Type-C cable

1. Verify that the NAS is powered off.
2. Connect the expansion unit to the NAS.
 - a. Connect the USB cable to the USB Type-C port on the expansion unit.
 - b. Connect the USB cable to a USB 3.2 Gen 2 Type-A port on the NAS.



Note

This image shows the TS-462A connected to a TR-004 USB expansion unit.

3. Power on the expansion units.
4. Power on the NAS.
5. Verify that the expansion units are recognized by the NAS.
 - a. Log on to QTS as an administrator.
 - b. Go to **Storage & Snapshots > Overview > System**.
 - c. Verify that the expansion units are listed.

QTS installation

The NAS uses the QNAP QTS operating system. You can install QTS using any of the following methods.

Method	Description	Requirements
Qfinder Pro installation (Recommended)	If the NAS is connected to your local area network, you can do the following: • Locate the NAS using Qfinder Pro. • Complete the steps in the Smart Installation Guide wizard. For details, see Initializing QTS using Qfinder Pro.	• Computer • Network cable • Qfinder Pro installer
Cloud installation	If the NAS is connected to the internet, you can do the following: • Scan the QR code on the NAS. • Specify the Cloud Key. • Log into your myQNAPcloud account. • Use myQNAPcloud Link to remotely access your NAS. • Complete the steps in the Smart Installation Guide wizard. For details, see Initializing QTS using the cloud installation website.	• Computer or mobile device • Network cable • myQNAPcloud account • Cloud Key

Initializing QTS using Qfinder Pro

You can initialize QTS using Qfinder Pro, which is a utility designed to help you locate and manage QNAP devices on your network.

Warning

Initializing QTS deletes all data on the drives. Back up your data before proceeding.

1. Power on the NAS.
2. Connect the NAS to your local area network.

- Run Qfinder Pro on a computer that is connected to the same local network.

Tip

To download Qfinder Pro, go to <https://www.qnap.com/utilities>.

- Click **Next**.

The **QNAP Warranty Service** page opens in the default web browser.

- Click **Check warranty**.

The **QNAP Warranty Service** window opens in a new web page.

Important

You can check your device warranty policy or purchase an extended warranty plan at [QNAP Warranty Service](#).

- Close the warranty page.

The **Smart Installation Guide** opens in the default web browser.

- Click **Start Smart Installation**.

- Read the QNAP Software Terms of Use carefully.

- Agree to the terms and conditions.

- Click **Next**.

- If the screen shows a different operating system, click **QTS**.

Note

This step is only required if the NAS supports installing more than one operating system and the default operating system for installation is not QTS.

The NAS restarts and the smart installation screen shows QTS as the operating system to install.

- Click **Start Smart Installation**.

- Specify a firmware version using any of the following methods.

Methods	User Actions
Current version	Select Current version .
Latest available version	- Select Latest available version. - Click Check for Update The system checks for the latest firmware update available for your device. If a newer version is available, the system downloads the firmware update and restarts the NAS.

Methods	User Actions
Uploaded version	a. Select Uploaded version. b. Click Browse. The file upload window appears. c. Select a firmware file.

14. Click **Next.**

The **Enter the NAS name and administrator's password** screen appears.

15. Specify the following information.

- **NAS Name:** Specify a name with 1 to 14 characters. The name can contain letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), but cannot end with a hyphen.
- **Username:** Specify an administrator username that contains 1 to 32 characters. The name can contain letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), multi-byte Chinese, Japanese, Korean, and Russian characters.
The username cannot contain the following special characters: grave accent (`), asterisk (*), equal sign (=), plus sign (+), square brackets ([]), curly brackets ({}), slash (/), vertical bar (|), semicolon (;), colon (:), apostrophe ('), quotation mark ("), comma (,), less than sign (<), greater than sign (>), backslash (\), question mark (?), percent sign (%), dollar sign (\$), and the space character.

Important

To ensure the security of your NAS, the default "admin" account is disabled by default and cannot be used for initialization. The "admin" account can be enabled after your device is initialized, but for security reasons it is not recommended.

- **Password:** Specify an administrator password with 1 to 64 characters. The password can contain any ASCII characters.
- **Confirm Password:** Enter the new administrator password again.

16. Click **Next.**

The **Set the date and time** screen appears.

17. Specify the time zone, date, and time using any of the following methods:

Tip

QNAP recommends connecting to an NTP server to ensure that the NAS follows the Coordinated Universal Time (UTC) standard.

Methods	User Actions
Synchronize with computer or mobile device time	Select Same as the computer/device time The NAS synchronizes with the date and time of the computer or mobile device used to complete the initialization.
Enter manually	a. Select Input Manually. b. Specify the date and time. The NAS uses the specified date and time.
Synchronize with a time server automatically	Click Synchronize with an Internet time server automatically . The NAS synchronizes with the NTP server.

18. Click **Next.**

The **Configure the network settings** screen appears.

19. Configure the network settings using any of the following methods.

Methods	User Actions
Obtain an IP address automatically (DHCP)	Select Obtain an IP address automatically (DHCP) The system automatically detects and configures the IP address settings.
Use static IP address	a. Select Use static IP address. The IP address configuration page appears. b. Specify the following IP address configurations: • Interface • IP Address • Subnet Mask • Default Gateway • Primary DNS server • Secondary DNS server

20. Click **Next.**

The **Thunderbolt Connection** page appears.

Note

This page only appears if your device supports Thunderbolt. You will need to connect your device to a computer using a Thunderbolt cable.

21. Click **Next**.
The **Summary** screen appears.
22. Review the settings.
23. Click **Apply**.
A confirmation message appears.

Warning

Clicking **Initialize** deletes all data on the drive before installing QTS.

24. Click **Initialize**.

Important

The initialization may take several minutes to complete. Do not power off the device during the process.

QTS is initialized.

Initializing QTS using the cloud installation website

You can initialize QTS on the cloud installation website, which is designed to help you set up QNAP devices.

Warning

Initializing QTS deletes all data on the drives. Back up your data before proceeding.

1. Power on the NAS.
2. Connect the NAS to the internet.
3. Go to the QNAP Cloud Installation website using one of the following methods:
 - On your computer, go to the website dedicated to your region:
 - Global: <https://install.qnap.com>
 - China: <https://install.qnap.com.cn>
 - Or scan the QR code on the NAS using a mobile device.

The web page lists all the uninitialized QNAP NAS devices on the local network.

4. Find your NAS from the list and then click **Initialize**.

Tip

If your NAS is connected to the Internet, you can also go to <https://install.qnap.com/set> to enter the Cloud Key printed on the NAS. This allows you to initialize the NAS even if your NAS and your computer are not on the same network.

The installation wizard opens in the default web browser

5. Create an account or sign in to myQNAPcloud.

Note

You must return to this page to complete the installation after creating an account.

6. Specify the myQNAPcloud device name for the NAS.

Note

- The myQNAPcloud device name is used when remotely accessing the NAS.
- For security purposes, the myQNAPcloud Link remote connection service will be disabled on your NAS after initialization. You can enable it by connecting to QTS through LAN and then installing myQNAPcloud Link.

7. Click **Next**.

The **QNAP Warranty Service** page opens in the default web browser.

8. Click **Check warranty**.

The **QNAP Warranty Service** window opens in a new web page.

Important

You can check your device warranty policy or purchase an extended warranty plan at [QNAP Warranty Service](#).

9. Close the warranty page.

The **Smart Installation Guide** opens in the default web browser.

10. Click **Start Smart Installation**.

11. Read the QNAP Software Terms of Use carefully.

12. Agree to the terms and conditions.

13. Click **Next**.

14. If the screen shows a different operating system, click **QTS**.

Note

- This step is only required if the NAS supports installing more than one operating system and the default operating system for installation is not QTS.
- If the screen shows QuTS hero, you may need to click **Skip** first.

The NAS restarts and the smart installation screen shows QTS as the operating system to install.

15. Click **Start Smart Installation**.

16. Specify a firmware version using any of the following methods.

Methods	User Actions
Current version	Select Current version .
Latest available version	a. Select Latest available version. b. Click Check for Update The system checks for the latest firmware update available for your device. If a newer version is available, the system downloads the firmware update and restarts the NAS.
Uploaded version	a. Select Uploaded version. b. Click Browse. The file upload window appears. c. Select a firmware file.

17. Click **Next**.

The **Enter the NAS name and administrator's password** screen appears.

18. Specify the following information.

- **NAS Name:** Specify a name with 1 to 14 characters. The name can contain letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), but cannot end with a hyphen.
- **Username:** Specify an administrator username that contains 1 to 32 characters. The name can contain letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), multi-byte Chinese, Japanese, Korean, and Russian characters.
The username cannot contain the following special characters: grave accent (`), asterisk (*), equal sign (=), plus sign (+), square brackets ([]), curly brackets ({}), slash (/), vertical bar (|), semicolon (;), colon (:), apostrophe ('), quotation mark ("), comma (,), less than sign (<), greater than sign (>), backslash (\), question mark (?), percent sign (%), dollar sign (\$), and the space character.

Important

To ensure the security of your NAS, the default "admin" account is disabled by default and cannot be used for initialization. The "admin" account can be enabled after your device is initialized, but for security reasons it is not recommended.

- **Password:** Specify an administrator password with 1 to 64 characters. The password can contain any ASCII characters.
- **Confirm Password:** Enter the new administrator password again.

19. Click **Next.**

The **Set the date and time** screen appears.

20. Specify the time zone, date, and time using any of the following methods:**Tip**

QNAP recommends connecting to an NTP server to ensure that the NAS follows the Coordinated Universal Time (UTC) standard.

Methods	User Actions
Synchronize with computer or mobile device time	Select Same as the computer/device time The NAS synchronizes with the date and time of the computer or mobile device used to complete the initialization.
Enter manually	a. Select Input Manually. b. Specify the date and time. The NAS uses the specified date and time.
Synchronize with a time server automatically	Click Synchronize with an Internet time server automatically . The NAS synchronizes with the NTP server.

21. Click **Next.**

The **Configure the network settings** screen appears.

22. Configure the network settings using any of the following methods.

Methods	User Actions
Obtain an IP address automatically (DHCP)	Select Obtain an IP address automatically (DHCP) The system automatically detects and configures the IP address settings.

Methods	User Actions
Use static IP address	a. Select Use static IP address. The IP address configuration page appears. b. Specify the following IP address configurations: • Interface • IP Address • Subnet Mask • Default Gateway • Primary DNS server • Secondary DNS server

- 23.** Click **Next**.
The **Thunderbolt Connection** page appears.

Note

This page only appears if your device supports Thunderbolt. You will need to connect your device to a computer using a Thunderbolt cable.

- 24.** Click **Next**.
The **Summary** screen appears.
- 25.** Review the settings.
- 26.** Click **Apply**.
A confirmation message appears.

Warning

Clicking **Initialize** deletes all data on the drive before installing QTS.

- 27.** Click **Initialize**.

Important

The initialization may take several minutes to complete. Do not power off the device during the process.

QTS is initialized.

4. Basic Operations

This chapter describes basic NAS operations.

Power button

Operation	User Action	Result
Power on	Press the button once.	The device powers on.
Power off	Press and hold the button for 1.5 seconds.	The device powers off.
Force power off	Press and hold the button for 10 seconds.	The device powers off. Important Use this method only when the device is unresponsive. Note After forcing the device to power off, the fans will spin very fast for about 3 seconds. This is normal and to be expected.

Reset button

Important

To protect your device from brute force attacks, QNAP recommends disabling the default `admin` account after a system reset. To disable the default `admin` account, you must first create a new administrator account, log out of the `admin` account, and then log in with the new account.

Operation	User Action	Result
Basic system reset	Press and hold the button for 3 seconds.	The following settings are reset to default: • The <code>admin</code> account is automatically enabled. • System administrator password: For details on the default password, see this FAQ. • The <code>admin</code> account is automatically enabled. • TCP/IP configuration: • Obtain IP address settings automatically via DHCP • Disable jumbo frames • If port trunking is enabled (multi-LAN models only), the port trunking mode is reset to "Active Backup (Failover)". • System port: 8080 (system service port) • Security level: Low (Allow all connections) • LCD panel password: (blank) • VLAN: Disabled
Advanced system reset	Press and hold the button for 10 seconds.	The default factory settings are restored. To retrieve old data after an advanced system reset, recreate the previous folder structure on the NAS.

USB One Touch Copy button

The USB One Touch Copy button allows you to copy data backups from a USB device to the QNAP device or from the QNAP device to a USB device.

This feature supports incremental backups. The QNAP device only copies files that were modified or added after the last backup.

To configure the behavior of the button when an external device is connected to the button's USB port, install and use Hybrid Backup Sync on your QNAP operating system. For details, see the [Hybrid Backup Sync](#) documentation.

LEDs

LEDs indicate the system status and related information when the device is powered on. The following LED information applies only when the drive is correctly installed and when the device is connected to the network or to a host.

For details on the location of the LEDs, see [Front panel](#).

System Status and Power LED

Status	Description
Flashes green and red alternately every 0.5 seconds	• A drive is being formatted. • The device is being initialized. • The operating system is being updated. • RAID rebuilding is in progress. • Online RAID Capacity Expansion is in progress. • Online RAID Level Migration is in progress.
Red	• A drive is invalid. • A volume has reached its full capacity. • A volume is about to reach its full capacity. • A system fan is not functioning. • An error occurred when accessing (read/write) the data. • A bad sector is detected on a drive. • The device is in degraded read-only mode (two member drives failed in RAID 5 or RAID 6 but the data can still be read). • A hardware self-test error occurred.
Flashes red every 0.5 seconds	The device is in degraded mode (one member drive failed in RAID 1, RAID 5, or RAID 6).
Green	The device is ready.
Flashes green every 0.5 seconds	• The device is not configured. • A drive is not formatted.
Off	• All drives are in standby mode. • The device is powered off.

LAN LED

Status	Description
Green	The device is connected to the network.

Status	Description
Flashes green	The device is being accessed from the network.
Off	The device is not connected to a network.

USB One Touch Copy LED

Status	Description
Flashes blue every 0.5 seconds	• A USB device connected to the USB One Touch Copy port is detected. • A USB device connected to the USB One Touch Copy port is being removed from the device. • A USB device connected to the USB One Touch Copy port is being accessed.
Blue	A USB device is detected in the USB One Touch Copy port.
Off	• No USB device is detected in the USB One Touch Copy port. • The host device has finished copying data to or from the USB device connected to the USB One Touch Copy port.

Drive LED

Status	Description
Flashes red	Data is being accessed, and during the process a drive read/write error occurred.
Red	A drive read/write error occurred.
Flashes green	Data is being accessed.
Green	The drive is ready.
Off	No drive was detected.

2.5 Gigabit Ethernet Activity LED

Status	Description
Orange	A network connection has been established.

Status	Description
Flashes orange	The device is being accessed from the network.
Off	There is no network connection.

2.5 Gigabit Ethernet Speed LED

Status	Description
Green	The network connection is operating at 2.5 Gbps.
Orange	The network connection is operating at 1 Gbps or 100 Mbps.
Off	- The network connection is operating at 10 Mbps. - There is no network connection.

Audio alerts

Duration	Frequency	Description
Short beep (0.5 seconds)	1	- The NAS is starting up. - The NAS is shutting down (software shutdown). - When the reset button is pressed for 3 seconds, the NAS resets configurations. - When the reset button is pressed for 10 seconds, the NAS resets configurations and reboots.
	3	- The NAS data cannot be copied to the external storage device connected to the USB One Touch Copy port. - The firmware was updated.
Long beep (1.5 seconds)	3 (every 5 minutes)	The system fan is not functioning.

Duration	Frequency	Description
Long beep (1.5 seconds)	2	• A disk volume is about to reach its full capacity. • A disk volume has reached its full capacity. • The drives are in degraded mode. • A drive is rebuilding. • A drive is plugged in or out.
	1	• The NAS was powered off by force shutdown (hardware shutdown). • The NAS was powered on successfully and is ready.

5. NAS Migration

You can migrate data and settings from your current NAS to another NAS model with minimal disruptions by installing all the hard drives from the source NAS to the destination NAS. RAID configuration and other settings are retained on the destination NAS after migration.

NAS migration requirements

You can only migrate drives to specific NAS models, depending on your source NAS. For the list of NAS models compatible with direct NAS migration, see <https://www.qnap.com/go/nas-migration>.

Your device must meet the following requirements:

- QTS NAS supports several types of NAS migration:
 - ARM NAS to an ARM NAS
 - x86 NAS to an x86 NAS
 - ARM NAS to an x86 NAS

Note

You cannot migrate from an x86 NAS to an ARM NAS.

- The destination NAS must run on the same QTS version as the source NAS (or later).

Important

Due to incompatibilities in file system, system migration between QTS NAS and QuTS hero NAS is not supported.

Warning

Migrating drives between QTS NAS and QuTS hero NAS can cause data corruption.

- The destination NAS must have sufficient free drive bays to accommodate all the drives that you are migrating from the source NAS.

For NAS models that do not support NAS migration, you can migrate existing data using HBS 3. For details, see [Migrating NAS data using HBS 3](#).

Status and setting changes after NAS migration

The status of NAS data and settings varies after migration.

Data and Settings	After NAS Migration
Registered myQNAPcloud name	Your registered myQNAPcloud name is not migrated.
Encrypted disk volumes	If the NAS does not support file system encryption, encrypted disk volumes are not migrated. Warning To prevent data loss, back up and save the encryption keys of encrypted disk volumes in a safe place. You can also choose to decrypt disk volumes before migration.
Shared folders	All shared folders and the downloaded files stored in them are retained. Warning To prevent data loss, back up and save encryption keys or passwords of encrypted shared folders in a safe place before migration. Important Folder permissions on the destination NAS must be reconfigured after migration.
Network	• If the number of network ports or network port specifications on the destination NAS is different from the source NAS, the following network and virtual settings may change and require reconfiguration: port trunking, virtual machines, Thunderbolt, USB QuickAccess, and more. • You must reconfigure network settings when the source NAS is running on QTS 4.3.5 or earlier versions.
Windows AD configuration	Windows AD configurations must be reconfigured.
Licenses	Licenses are not migrated. Warning To prevent losing all your software licenses, QNAP recommends deactivating licenses on the source NAS before data migration.

Data and Settings	After NAS Migration
Applications	If the destination NAS has less RAM than the source NAS, the following features and applications might not function: Virtualization Station, Qsirch, and Snapshots.
Services	Only services supported by the destination NAS are available.
Multimedia features	Some multimedia features are disabled by default.

Migrating a NAS

Important

Before performing NAS migration, ensure that you understand all requirements and possible changes after migration.

For details see the following topics:

- [NAS migration requirements](#)
- [Status and setting changes after NAS migration](#)

1. Power off the source NAS and the destination NAS.
2. Remove the drives.

Important

QNAP recommends following the source NAS drive order when installing the drives. Take note of the drive tray order when removing the drives.

- a. Remove the drives from the source NAS.
 - b. Remove the drive trays from the destination NAS.
3. Install the drives.
 - a. Install source NAS drives onto the destination NAS drive trays.
 - b. Insert the drive trays into the destination NAS.
 4. Power on the destination NAS.
 5. Log on to QTS as an administrator on the destination NAS.
The destination NAS automatically checks for the latest firmware update.

Migrating NAS data using HBS 3

For NAS models that do not support direct migration, you can initialize the destination NAS then copy data from the source NAS to the destination NAS using HBS 3.

Preparing the destination NAS

1. Log on to QTS.
2. Create one or more storage pools.
For details, see the [Creating a Storage Pool](#) topic in the QTS user guide.
3. Create one or more volumes.
For details, see the [Volume Creation](#) topic in the QTS user guide.
4. Create shared folders on the destination NAS.
For details, see the [Creating a Shared Folder](#) topic in the QTS user guide.
5. Install HBS 3 onto the destination NAS.
 - a. Go to **App Center**.
 - b. Search for HBS 3.
 - c. Click **Install**.
HBS 3 is installed on the destination NAS.
6. Enable the remote server settings on the destination NAS.
 - a. Go to **App Center > HBS 3 > Services > RTRR Server**.
 - b. Click **Enable RTRR Server**.
The RTRR server settings window appears.
 - c. Specify the **RTRR Server** settings.

Setting	Description
Password	Specify a password that contains 1 to 16 characters from any of the following groups: • Letters: A to Z, a to z • Numbers: 0 to 9 • Special characters: . - _ ~ ! @ # \$ % ^ & () { } • Does not start or end with a space.
Port	Specify a port number to access the RTRR server.

7. Click **Apply**.
A confirmation window appears.
8. Click **OK**.
The remote server settings are completed.

Creating a one-way sync job

1. On the source NAS, go to **App Center > HBS 3 > Sync**.

2. Click **Sync Now**.
3. Select **One-way Sync Job**.
The **Create a Sync Job** window appears.
4. Click **Remote NAS**.
5. Click **Add New Account**.
The **Create a Storage Space** window appears.
6. Select the destination NAS as the destination storage space and specify the following:

Setting	Description
Name	The name used to identify the storage space.
IP address / Host name	The IP address or hostname used to access the storage space. Tip Click  to scan for available devices.
Port	The port number used to access the storage space. This value must be between 1 to 65535.
Password	The password used to access the storage space.
Use SSL connection	Requires SSL connection when accessing the remote NAS.

7. Optional: Test the connection.

Test	Description
Detect Server	Tests the accessibility of the selected storage space.
Speed Test	Tests the network connection speed of the selected storage space.

8. Click **Create**.
9. Click **Select**.
10. Select the paired folders.

Important

- All subfolders and files in the selected folder are selected.
- You can only sync up to 16 paired folders per job.

- a. Under the source, click .
- A dialog box opens.

- b.** Select a folder.
 - c.** Click **OK**.
The dialog box closes.
 - d.** Under the destination, click **+**.
A dialog box opens.
 - e.** Select a folder.
 - f.** Click **OK**.
 - g.** Optional: Add more paired folders if necessary.
- 11.** Click **Next**.
The **Schedule** screen appears.
 - 12.** Select **Sync now**.
 - 13.** Click **Next**.
The **Rules** screen appears.
 - 14.** Optional: Configure job rules.
 - 15.** Click **Next**.
The **Summary** screen appears.
 - 16.** Review the job summary.
 - 17.** Click **Create**.
The source NAS runs the created one-way sync job.

Note

It may take several minutes to migrate shared folders from the source NAS to the destination NAS.

Importing local users or group settings to the destination NAS

- 1.** Power on the source NAS.
- 2.** Back up the users or group settings from the source NAS.
 - a.** Log on to QTS.
 - b.** Go to **Control Panel > Privilege > Users**.
 - c.** Click **Create**, and then click **Import/Export Users**.
The **Import/Export Users** window appears.
 - d.** Select **Export user and user group settings**.

e. Click **Next.**

The NAS user and user group settings are exported as a file and downloaded onto your computer.

3. Import user settings on the source NAS to the destination NAS.

a. On the destination NAS, log on to QTS.

b. Go to **Control Panel > **Privilege** > **Users**.**

c. Click **Create, and then click **Import/Export Users**.**

d. Select **Import user and user group settings.**

Note

You can select whether to send a notification mail to newly created users or overwrite duplicate users.

e. On your computer, select the user settings file exported from the source NAS.

The source NAS user settings file is imported to the destination NAS.

6. Troubleshooting

This chapter describes basic troubleshooting information.

Forcing Qfinder Pro or myQNAPcloud to locate the NAS

If Qfinder Pro or myQNAPcloud is unable to locate the NAS during QTS installation, the drives or data may be faulty.

1. Power off the NAS.
2. Remove all drives.
3. Power on the NAS.
4. Locate the NAS using Qfinder Pro or myQNAPcloud.
5. Reinsert the drives.
6. Continue with the QTS installation.

Hot-swapping failed drives

The NAS supports hot-swapping of drives in the following situations:

RAID Type	Number of Disks	Situation
RAID 1	2	One member drive fails.
RAID 5	≥ 3	One member drive fails.
RAID 6	≥ 4	One or two member drives fail.
RAID 10	≥ 4 (Must be an even number)	One or two member drives in two different pairs fail.

1. Log on to QTS.
2. Go to **Main Menu > Storage & Snapshots > Storage > Disks/VJBOD**.
3. Locate the failed drive.
4. Prepare a new drive with a capacity that is the same as or larger than the failed drive.
5. Remove the failed drive from the device.
6. Wait for 20 seconds or until the device beeps twice.
7. Remove the failed drive from the drive tray.
8. Insert the new drive into the drive tray.

9. Install the new drive.
The NAS beeps twice.

10. Go to **Main Menu > Storage & Snapshots > Storage > Storage/Snapshots**.

11. Locate the storage pool that contains the new drive and then verify that the status is **Rebuilding**.

Recovering unintentionally removed hard drives

The NAS supports exclusive RAID recovery technology to recover failed RAID groups from unintentional disconnection or removal of drives. Users can recover an inactive RAID 1, RAID 5, RAID 6, or RAID 10 group from degraded mode.

RAID Type	RAID Recovery Support	Number of Disks	Disk Failure Tolerance
Single	No	1	N/A
RAID 0	Yes	≥ 2	N/A
RAID 1	Yes	2	1
RAID 5	Yes	≥ 3	1
RAID 6	Yes	≥ 4	2
RAID 10	Yes	≥ 4 (Must be an even number)	One disk per subgroup fails.

Support and other resources

QNAP provides the following resources:

Resource	URL
Documentation	https://download.qnap.com
Compatibility List	https://www.qnap.com/compatibility
NAS Migration Compatibility	https://www.qnap.com/go/nas-migration
Expansion Unit Compatibility	https://www.qnap.com/go/compatibility-expansion
Service Portal	https://service.qnap.com
Product Support Status	https://www.qnap.com/go/product/eol.php

Resource	URL
Downloads	https://download.qnap.com
QNAP Community	https://community.qnap.com
QNAP Accessories Store	https://shop.qnap.com

7. Glossary

Cloud Key

Unique 8-digit code assigned to each NAS device

myQNAPcloud

Provides various remote access services such as DDNS and myQNAPcloud Link

myQNAPcloud Link

Enables you to access QNAP devices over the internet without configuring complex port forwarding settings

Qfinder Pro

QNAP utility that lets you locate and access QNAP devices in your local area network

QNAP ID

User account that enables you to use myQNAPcloud remote access and other QNAP services

QTS

QNAP NAS operating system

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END OF TERMS AND CONDITIONS

CE notice



This device complies with CE Compliance Class B.

UKCA notice



This device complies with the UKCA requirements for products sold in Great Britain.

FCC notice

FCC Class B Notice



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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note

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 radio communications. 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/television technician for help.

Important

Any modifications made to this device that are not approved by QNAP Systems, Inc. may void the authority granted to the user by the FCC to operate this equipment.

VCCI notice

VCCI-B

BSMI notice

SJ/T 11364-2006



本产品符合中国 RoHS 标准。以下表格标示此产品中某有毒物质的含量符合中国 RoHS 标准规定的限量要求。

本产品上会附有“环境友好使用期限”的标签，此期限是估算这些物质“不会有泄漏或突变”的年限。本产品可能包含有较短的环境友好使用期限的可替换元件，像是电池或灯管，这些元件将会单独标示出来。

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (CR(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
壳体	0	0	0	0	0	0
显示	0	0	0	0	0	0
印刷电路板	0	0	0	0	0	0
金属螺帽	0	0	0	0	0	0
电缆组装	0	0	0	0	0	0
风扇组装	0	0	0	0	0	0
电力供应组 装	0	0	0	0	0	0
电池	0	0	0	0	0	0
O: 表示该有毒有害物质在该部件所有物质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。						
X: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。						