

# **TS-x31P2**

## TS-231P2 TS-431P2

## **User Guide**

Document Version: 2 20/12/2021

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## **1. Preface**

#### **About This Guide**

This guide provides information on the QNAP TS-x31P2 NAS and step-by-step instructions on installing the hardware. It also provides instructions on basic operations and troubleshooting information.

#### Audience

This document is intended for consumers and storage administrators. This guide assumes that the user has a basic understanding of storage and backup concepts.

#### **Document Conventions**

Symbol	Description
	Notes provide default configuration settings and other supplementary information.
	Important notes provide information on required configuration settings and other critical information.
	Tips provide recommendations or alternative methods of performing a task or configuring settings.
	Warnings provide information, that when ignored, may result to potential loss, injury, or even death.

## 2. Product Overview

This chapter provides basic information about the QNAP TS-x31P2 NAS.

#### About the TS-x31P2

The TS-x31P2 is powered by an Annapurna Labs Alpine AL-314 quad-core 1.7 GHz processor and DDR3 RAM. The NAS provides two or four hot-swappable SATA drive bays that support both hard disk drives and solid state drives. The TS-x31P2 also includes three USB 3.0 ports and two gigabit LAN ports.

#### **Hardware Specifications**

#### Important

Modifying the hardware or software of your QNAP product invalidates the warranty. QNAP is not responsible for any damage or data loss caused by unauthorized modifications and installation of unsupported third-party applications.

Component	TS-231P2	TS-431P2
Ordering P/N	• TS-231P2-1G	• TS-431P2-1G
	• TS-231P2-4G	• TS-431P2-4G
Processor		1
CPU	Annapurna Labs Alpine AL-314 quad-core	1.7 GHz
Architecture	64-bit	
Encryption engine	AES-256	
Memory		
Pre-installed memory	• TS-231P2-1G: 1 GB (1 x 1 GB) of DDR3 SODIMM	• TS-431P2-1G: 1 GB (1 x 1 GB) of DDR3 SODIMM
	• TS-231P2-4G: 4 GB (1 x 4 GB) of DDR3 SODIMM	• TS-431P2-4G: 4 GB (1 x 4 GB) of DDR3 SODIMM
Total memory slots	1	
Maximum memory	8 GB (1 x 8 GB)	
Storage		
Drive bays	2 x SATA 6 Gbps	4 x SATA 6 Gbps
Drive compatibility	• 3.5-inch SATA hard disk drives	
	• 2.5-inch SATA hard disk drives	
	• 2.5-inch SATA solid state drives	
SSD cache acceleration	Yes	Yes
support	Note     SSD cache drives are not hot-     swappable.	Note     SSD cache drives are not hot-     swappable.
Hot-swappable	Yes	
	SSD cache drives are not hot-swap	oable.
Network	1	

Component	TS-231P2	TS-431P2
Gigabit Ethernet ports	2 x RJ45	
External I/O Ports &	Expansion Slots	
USB ports	• 3 x USB 3.0	
	• Front: 1 x USB 3.0 Type-A One T	Fouch Copy
	• Back: 2 x USB 3.0 Type-A	
Interface		
USB One Touch Copy	Front: USB 3.0 Type-A	
Dimensions		
Dimensions (H x W x D)	169 x 102 x 219 mm 6.65 x 4.02 x 8.62 in	169 x 160 x 219 mm 6.65 x 6.3 x 8.62 in
Net weight	1.28 kg (2.82 lb)	3.0 kg (6.61 lb)
Form factor	Tower	
Other		
Power supply unit	65W AC adapter, 100-240V	90W AC adapter, 100-240V
Fans	1 x 70 mm	1 x 120 mm
Sound level	Sound pressure (LpAm) (bystander position): 19.2 dB (with 2 hard drives installed)	Sound pressure (LpAm) (bystander position): 19.5 dB (with 4 hard drives installed)
Operating temperature	0 to 40°C (32 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	

## 

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

## **Package Contents**

TS-231P2

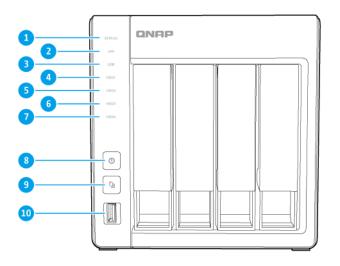
Item	Quantity
TS-231P2 NAS	1
AC power adapter	1
Power cord	1
Ethernet cables	2
Screws for 2.5-inch drives	8
Screws for 3.5-inch drives	10
Quick Installation Guide (QIG)	1

TS-431P2

Item	Quantity
TS-431P2 NAS	1
AC power adapter	1
Power cord	1
Ethernet cables	2
Screws for 2.5-inch drives	16
Screws for 3.5-inch drives	20
Quick Installation Guide (QIG)	1

## Components

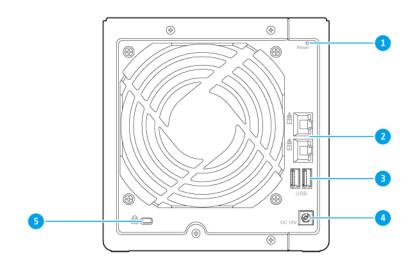
## **Front Panel**



#### TS-431P2

No.	Component	No.	Component
1	Status LED	6	Drive 3 LED
2	LAN LED	7	Drive 4 LED
3	USB LED	8	Power button
4	Drive 1 LED	9	USB One Touch Copy button
5	Drive 2 LED	10	USB 3.0 One Touch Copy port

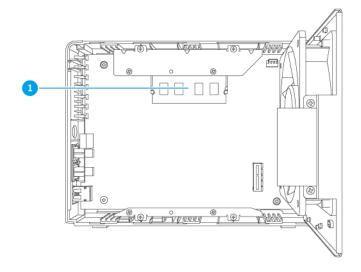
### **Back Panel**



#### TS-431P2

No.	Component	No.	Component
1	Reset button	4	Power port
2	Gigabit RJ45 Ethernet ports		Kensington security slot
3	USB 3.0 ports	-	-

## System Board



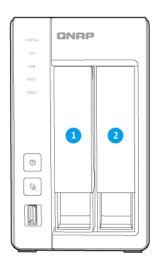


#### **Note** The image does not include the chassis.

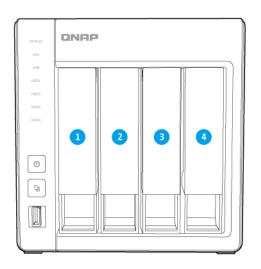
#### TS-431P2

No.	Component	No.	Component
1	Memory slot	-	-

## **Drive Numbering**



#### TS-231P2





#### **Installation Requirements**

Category	Item	
Environment	<ul> <li>Room temperature: 0 to 40°C (32 to 104°F)</li> </ul>	
	<ul> <li>Non-condensing relative humidity: 5 to 95%</li> </ul>	
	• Wet-bulb temperature: 27°C (80.6°F)	
	<ul> <li>Flat, anti-static surface with no exposure to direct sunlight, liquids, and chemicals</li> </ul>	
Hardware and peripherals	• Storage drives For details on compatible drives, go to https://www.qnap.com/ compatibility/.	
	Network cable	
Tools	Phillips #1 or #2 screwdriver	
	Anti-static wrist strap	

#### **Setting Up the NAS**

- **1.** Place your NAS device in an environment that meets the requirements. For details, see Installation Requirements.
- **2.** Install the drives. For details, see Installing 3.5-inch Hard Drives and Installing 2.5-inch Hard Drives or Solid State Drives.
- **3.** Connect the power cord and all applicable cables.
- **4.** Power on the NAS.
- **5.** Install QTS. For details, see QTS Installation.

6. Log on to QTS.

## **3. Installation and Configuration**

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

#### **Hardware Installation**

This section provides information on installing drives and memory modules.

#### **Installing Drives**

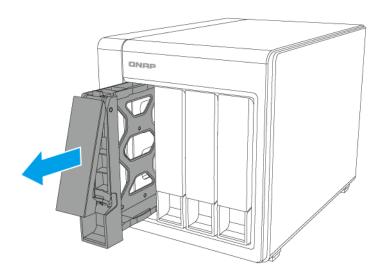
The TS-x31P2 is compatible with 3.5-inch and 2.5-inch hard drives, and solid state drives. All drive bays support SSD cache acceleration.

#### **Installing 3.5-inch Hard Drives**

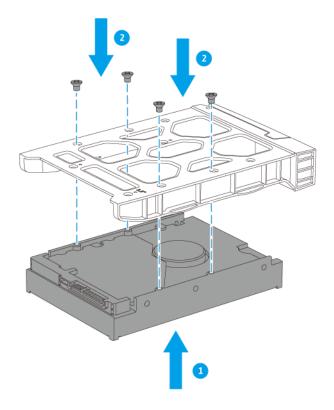


#### Warning

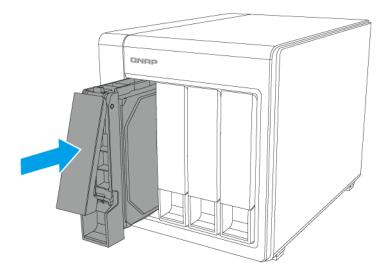
- Installing a drive deletes all data on the drive.
- Observe electrostatic discharge (ESD) procedures to avoid damage to components.
- 1. Power off the NAS.
- 2. Remove the drive tray.
  - **a.** Pull the handle to release the tray.
  - **b.** Pull the tray out.



- **3.** Install a drive on the tray.
  - **a.** Place the tray on the drive so that the holes on the tray are aligned with those on the drive.
  - **b.** Attach the screws to lock the drive to the tray.



- **4.** Load the drive tray into the drive bay.
  - **a.** Insert the tray into the bay.
  - **b.** Push the handle until it is locked into place.



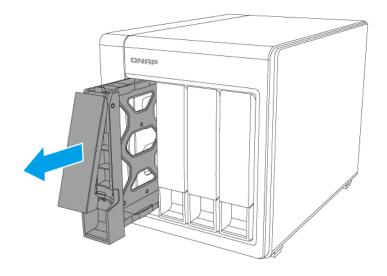
5. Power on the NAS.

#### **Installing 2.5-inch Hard Drives or Solid State Drives**

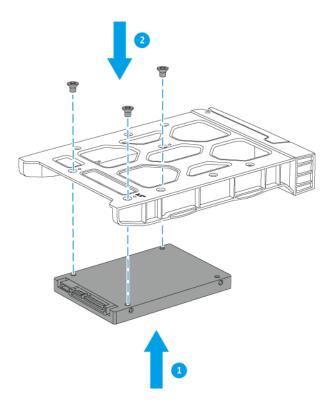


#### Warning

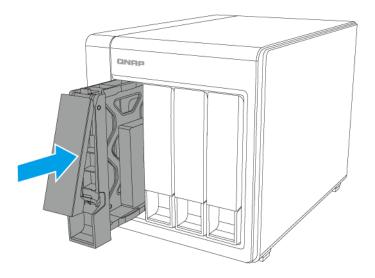
- Installing a drive deletes all data on the drive.
- Observe electrostatic discharge (ESD) procedures to avoid damage to components.
- **1.** Power off the NAS.
- **2.** Remove the drive tray.
  - **a.** Pull the handle to release the tray.
  - **b.** Pull the tray out.



- **3.** Install a drive on the tray.
  - **a.** Place the tray on the drive so that the holes on the tray are aligned with those on the drive.
  - **b.** Attach the screws to lock the drive to the tray.



- **4.** Load the drive tray into the drive bay.
  - **a.** Insert the tray into the bay.
  - **b.** Push the handle until it is locked into place.



5. Power on the NAS.

#### **Replacing Memory Modules**

The NAS has one memory slot. You can increase the memory capacity of the NAS by upgrading the memory module.

Use only QNAP memory modules to maintain system performance and stability. You can purchase QNAP memory modules from authorized resellers.



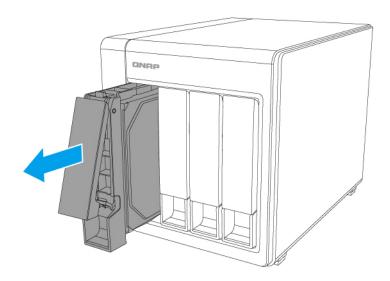
#### Warning

- Only qualified personnel should perform the following steps. Failure to follow instructions can result in serious injury or death.
- Observe electrostatic discharge (ESD) procedures to avoid damage to components.
- 1. Power off the NAS.
- 2. Unplug the power cord from the electrical outlet.
- 3. Disconnect all cables and external attachments.
- 4. Remove the drive trays.
  - **a.** Pull the handle to release the tray.
  - **b.** Pull the tray out.

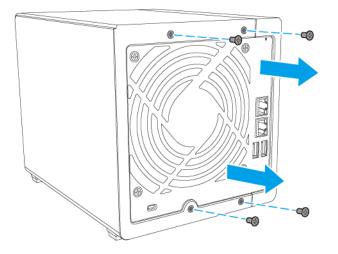


#### Important

Remember the number of each drive. The drive trays will need to be returned to their original bays.

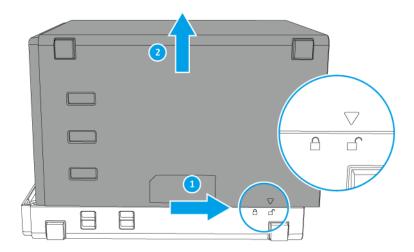


- 5. Remove the case cover.
  - **a.** Remove the screws that secure the case cover to the chassis.

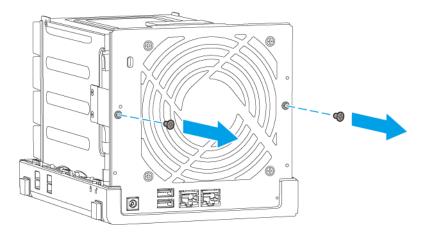


**Tip** The screws for the case cover are longer than those for other parts of the NAS.

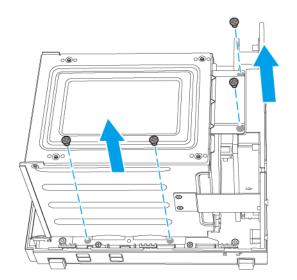
- **b.** Place the NAS on its left side.
- **c.** Slide the case cover to the right so that the triangle icon is aligned with the unlock icon.
- **d.** Pull the case cover up until it completely detaches from the chassis.

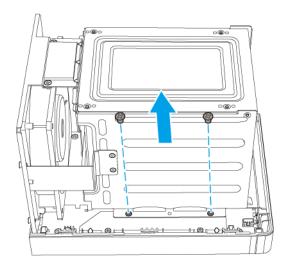


6. Remove the screws that secure the drive bay chassis to the back side of the NAS.

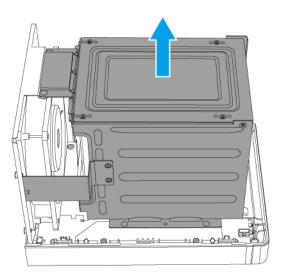


**7.** Remove the screws that secure the drive tray chassis to the NAS.

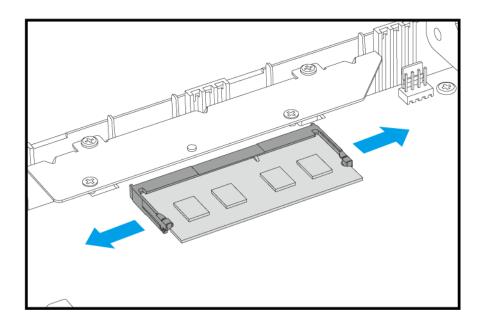




**8.** Carefully pull the drive tray chassis up until it completely detaches from the NAS.



- **9.** Remove an existing module.
  - **a.** Push the retention clips outward simultaneously to release the module.

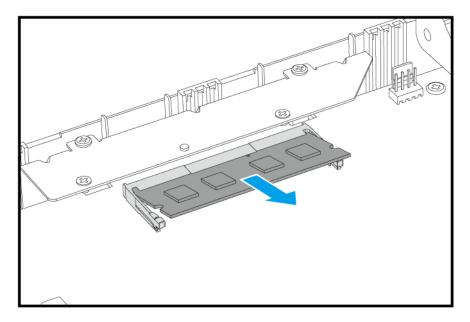


**b.** Verify that the module has tilted upward and is completely released from the slot.

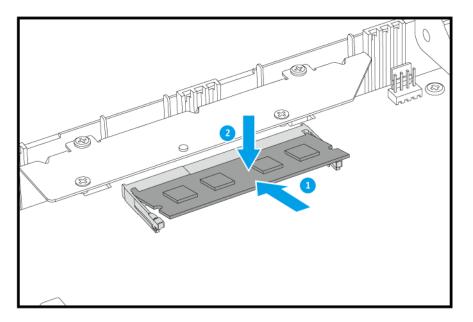
## Warning

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

**c.** Hold the module by the edges and then carefully slide it out of the slot.

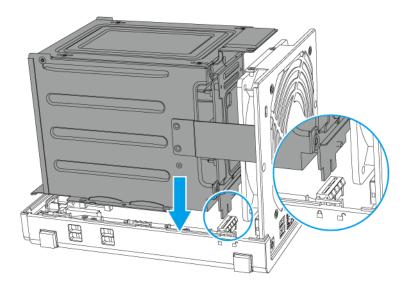


- **10.** Install a new module.
  - **a.** Align the notch with the ridge in the slot.
  - **b.** Insert the module into the slot.
  - c. Verify that the metal connectors are completely inserted into the slot.

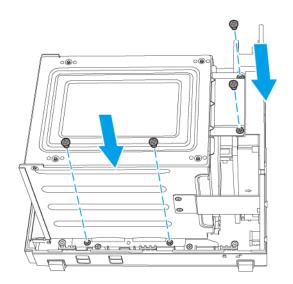


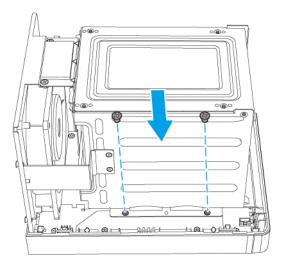
**d.** Carefully press down on the module until the retention clips lock the module into place.

- **11.** Place the drive tray chassis onto the NAS.
  - **a.** Align the SATA connector on the drive tray chassis with the SATA port on the system board.
  - **b.** Carefully insert the SATA connector into the SATA port.

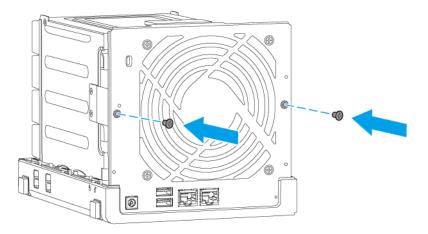


**12.** Attach the screws that secure the drive tray chassis to the NAS.

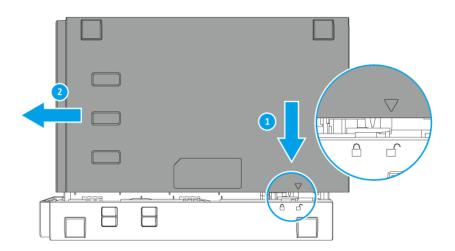




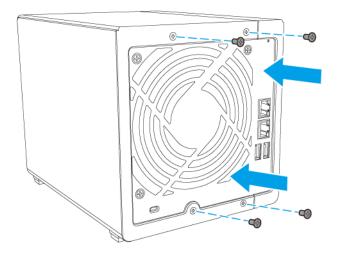
**13.** Attach the screws that secure the drive tray chassis to the back side of the NAS.



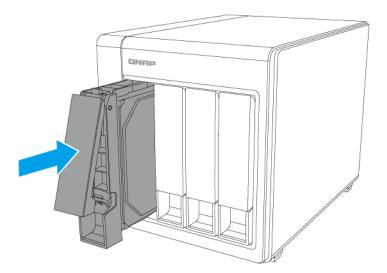
- **14.** Attach the case cover.
  - **a.** Align the triangle icon on the case cover with the unlock icon on the chassis.
  - **b.** Slide the case cover onto the chassis.
  - **c.** Slide the case cover to the left so that the triangle icon is aligned with the lock icon.



- **d.** Place the NAS on its bottom side.
- **e.** Attach the screws that secure the case cover to the chassis.



- **15.** Return drive trays into their original drive bays.
  - **a.** Insert the tray into the bay.
  - **b.** Push the handle until it is locked into place.



- **16.** Connect all cables and external attachments.
- **17.** Power on the NAS.
- **18.** Verify that the module is recognized by the NAS.
  - **a.** Log on to QTS as administrator.
  - **b.** Go to **Control Panel > System > System Status > Hardware Information** .

c. Check the value for Total memory.

#### **QTS Installation**

TS-x31P2 uses the QNAP QTS operating system. You can install QTS using any of the following methods.

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

#### **Installing QTS Using Qfinder Pro**



#### Warning

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



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

**4.** Locate the NAS in the list and then double-click the name or IP address. The **Smart Installation Guide** opens in the default web browser.

#### 5. Click Start Smart Installation Guide.

- **6.** Specify the following information.
  - **NAS name**: Specify a name with 1 to 14 characters. The name supports letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), but cannot end with a hyphen.

- **Password**: Specify an administrator password with 1 to 64 characters. The password supports all ASCII characters.
- 7. Click Next.
- **8.** Specify the time zone, date, and time.



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

- 9. Click Next.
- 10. Select Obtain an IP address automatically (DHCP).
- 11. Click Next.
- **12.** Select the types of devices that you will use to access shared folders on the NAS.
- 13. Click Next.
- 14. Configure the disk settings.
  - a. Select a volume type.
  - **b.** Select the disks that you want to use to create a RAID group.
  - c. Optional: Select a RAID type.



#### Note

The **Smart Installation Guide** automatically selects the optimal RAID type based on the number of the selected disks.

- d. Optional: Select Encrypted Disk Volume and Bad Block Scan.
- 15. Click Next.
- **16.** Review the settings.
- **17.** Click **Apply**. A confirmation message appears.

Warning



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

**18.** Click **Confirm**. QTS is installed.

#### **Installing QTS Using the Cloud Key**



Installing 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 page using one of the following methods:

- On your computer, go to http://install.qnap.com/.
- 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**.



Note

If your NAS is not listed, follow the instructions on the web page to specify the Cloud Key on the NAS.

The installation wizard opens in the default web browser.

5. Create an account or sign in to myQNAPcloud.



Note

Note

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

**6.** Specify the myQNAPcloud device name for the NAS.



The myQNAPcloud device name is used when remotely accessing the NAS.

7. Optional: Select CloudLink.

#### Note

- CloudLink allows you to remotely access the NAS without having to configure port forwarding on your router. You can remotely access the NAS by logging into QTS or by using mobile apps.
- You can also enable CloudLink by installing the CloudLink app on the NAS.
- 8. Click Next.

The Smart Installation Guide opens in the default web browser.

- 9. Click Start Smart Installation Guide.
- **10.** Specify the following information.
  - **NAS name**: Specify a name with 1 to 14 characters. The name supports letters (A to Z, a to z), numbers (0 to 9), and hyphens (-), but cannot end with a hyphen.
  - **Password**: Specify an administrator password with 1 to 64 characters. The password supports all ASCII characters.
- 11. Click Next.
- **12.** Specify the time zone, date, and time.



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

- 13. Click Next.
- 14. Select Obtain an IP address automatically (DHCP).

- 15. Click Next.
- **16.** Select the types of devices that you will use to access shared folders on the NAS.
- 17. Click Next.
- **18.** Configure the disk settings.
  - **a.** Select a volume type.
  - **b.** Select the disks that you want to use to create a RAID group.
  - **c.** Optional: Select a RAID type.



Note

The **Smart Installation Guide** automatically selects the optimal RAID type based on the number of the selected disks.

- d. Optional: Select Encrypted Disk Volume and Bad Block Scan.
- 19. Click Next.
- **20.** Review the settings.
- **21.** Click **Apply**. A confirmation message appears.



#### Warning

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

22. Click Confirm.

QTS is installed.

## **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 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.	

#### **Reset Button**

Operation	User Action	Result
Basic system reset	Press and hold the button for 3 seconds.	The following settings are reset to default:
	button for 5 seconds.	System administrator password: admin
		TCP/IP configuration:
		Obtain IP address settings automatically via DHCP
		• Disable jumbo frames
		<ul> <li>If port trunking is enabled (multi-LAN models only), the port trunking mode is reset to "Active Backup (Failover)".</li> </ul>
		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 15 seconds.	The default factory settings are restored.
		<ul> <li>To retrieve old data after an advanced system reset, recreate the previous folder structure on the NAS.</li> </ul>

#### **USB One Touch Copy Button**

The USB One Touch Copy button allows you to copy data backups from an external USB device to the NAS or from the NAS to an external USB device.

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

For details on configuring USB One Touch Copy, see the QTS User Guide.

#### LEDs

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

For details on the location of the LEDs, see Components.

LED	Status	Description
Status	Flashes green and red alternately 2 times per second	• A drive on the NAS is being formatted.
		• The NAS is being initialized.
		• The operating system is being updated.
		• RAID rebuild is in process.
		Online RAID Capacity Expansion is in process.
		Online RAID Level Migration is in process.
	Green	The NAS is ready.
	Flashes green 2 times per	The NAS is not configured.
	second	• A drive on the NAS is not formatted.
	Red	The drive is invalid.
		• A disk volume has reached its full capacity.
		• A disk volume is about to reach its full capacity.
		• The system fan is not functioning.
		<ul> <li>An error occurred when accessing (read/write) the data.</li> </ul>
		• A bad sector is detected on a drive.
		• The NAS is in degraded read-only mode (two member drives failed in RAID 5 or RAID 6 but the data can still be read).
		Hardware self-test error.
	Flashes Red 2 times per second	The NAS is in degraded mode (one member drive failed in RAID 1, RAID 5, or RAID 6).
	Flashes Red once	The NAS has received a command from a remote control.
	Flashes Amber	The NAS is in sleep mode (S3).
	Off	All drives are in standby mode.
Gigabit LAN	Amber	The NAS is connected to a network.
(Front)	Flashes amber	The NAS is being accessed from the network.
	Off	The NAS is not connected to a network.

LED	Status	Description
Gigabit LAN	Left Green	The Ethernet port is connected to a 1 gigabit network.
(Rear)	Left Amber	The Ethernet port is connect to a 100 megabit network.
	Left Off	The NAS is not connected to a network.
	Right Green	The Ethernet port is connected to a network.
	Right flashes Green	The NAS is being accessed on this Ethernet port.
	Right Off	The Ethernet port is not connected to a network.
Drive	Green	The drive is ready.
	Flashes Green	The drive is being accessed.
	Red	The drive has encountered an error.
	Flashes Red 5 times per second	The drive is being located in the operating system.
	Off	No drive is detected.
USB - One Touch Copy	Blue	A USB external storage device has been mounted successfully on the USB One-Touch Copy port.
	Flashes Blue 2 times per second	• A USB external storage device connected to the USB One Touch Copy port is being mounted.
		• A USB external storage device connected to the USB One Touch Copy port is being disconnected.
		<ul> <li>A USB external storage device connected to the USB One Touch Copy port is being accessed.</li> </ul>
	Off	No USB external storage device is connected.
USB	Blue	A USB external storage device is connected to a USB port.
	Off	No USB external storage device is connected.

### **Audio Alert**

Duration	Frequency	Description
Short beep (0.5 seconds)	1	• The NAS is starting up.
		• When the reset button is pressed for 3 seconds, the NAS resets configurations.
		• When the reset button is pressed for 15 seconds, the NAS resets configurations and reboots.
		• The operating system was updated.
	3	The NAS data cannot be copied to the external storage device connected to the front USB port.

Duration	Frequency	Description
Long beep (1.5 seconds)	3 (every 5 minutes)	• The system fan is not functioning.
		• The fan module has been removed.
	2	<ul> <li>The NAS was powered off by force shutdown (hardware shutdown).</li> </ul>
		<ul> <li>The disk volume is about to reach its full capacity.</li> </ul>
		• The disk volume has reached its full capacity.
		• The drives are in degraded mode.
		• The drive is rebuilding.
		• A drive is plugged in or out.
	1	The NAS is powering off.
		<ul> <li>The NAS was powered on successfully and is ready.</li> </ul>

## 5. 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 QTS installation.

#### **Hot-swapping Failed Drives**

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

- RAID 1: One member drive fails
- RAID 5: One member drive fails
- RAID 6: One or two member drives fail
- 1. Log on to QTS.
- 2. Go to Main Menu > Storage Manager > Storage > Disks/VJBOD .
- **3.** Locate the failed drive.
- **4.** Prepare a new hard drive with a capacity that is the same as or larger than the failed hard drive.
- 5. Remove the failed drive from the NAS.
- 6. Wait for 20 seconds or until the NAS 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 Manager > Storage Space .
- **11.** Locate the volume that contains the new drive and then verify that the status is Rebuilding.

#### **Recovering Unintentionally Removed Healthy Drives**

The NAS supports exclusive RAID recovery technology to recover failed RAID disk volumes from unintentional disconnection or removal of drives. Users can recover an inactive RAID 1, RAID 5, or RAID 6 volume to degraded mode, or an inactive RAID 0 and JBOD configuration to normal.

Disk Volume	RAID Recovery Support	Maximum Number of Removed Drives
Single	No	N/A
JBOD	Yes	1
RAID 0	Yes	1
RAID 1	Yes	1
RAID 5	Yes	2
RAID 6	Yes	3
RAID 10	No	N/A

#### **Support and Other Resources**

QNAP provides the following resources:

Resource	URL
Documentation	http://docs.qnap.com
Help Desk	http://helpdesk.qnap.com
Downloads	http://download.qnap.com
Community Forum	http://forum.qnap.com

## 6. Glossary

#### CloudKey

Unique 8-digit code assigned to each NAS device

#### CloudLink

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

#### myQNAPcloud

Provides various remote access services such as DDNS and CloudLink

#### myQNAPcloud ID

Email address that was used to register for a myQNAPcloud account

#### **Qfinder Pro**

Enables you to locate and access the QNAP NAS devices in your local area network

#### QTS

QNAP NAS operating system

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THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

**17.** Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

**18.** Interpretation of Sections 16 and 17.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

#### **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.

#### **CE Notice**



This QNAP NAS complies with CE Compliance Class B.

#### 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。								