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Synology®

Synology NAS SA3200D

Hardware Installation Guide

Table of Contents

Chapter 1: Before You Start

| | |
|-----------------------------------|---|
| Package Contents..... | 3 |
| Synology SA3200D at a Glance..... | 4 |
| Hardware Specification..... | 6 |
| Optional Accessories..... | 7 |
| Safety Instructions..... | 9 |

Chapter 2: Hardware Setup

| | |
|---|----|
| Tools and Parts for Component Installation..... | 10 |
| Install Drives..... | 10 |
| Install Memory Modules..... | 12 |
| Install PCIe Add-in Cards..... | 15 |
| Install and Remove Rail Kits..... | 16 |
| Expansion Unit Deployment and Topology..... | 18 |
| Start up Your Synology NAS..... | 20 |
| LED Indicator Table..... | 21 |

Chapter 3: System Maintenance

| | |
|--------------------------------------|----|
| Replace System Fan..... | 23 |
| Replace Power Supply Unit (PSU)..... | 24 |
| Initial Troubleshooting Guide..... | 24 |

Chapter 4: Initialize DSM on Synology NAS





| | |
|--|----|
| Initialize DSM with Web Assistant..... | 25 |
| Learn More..... | 25 |

Before You Start

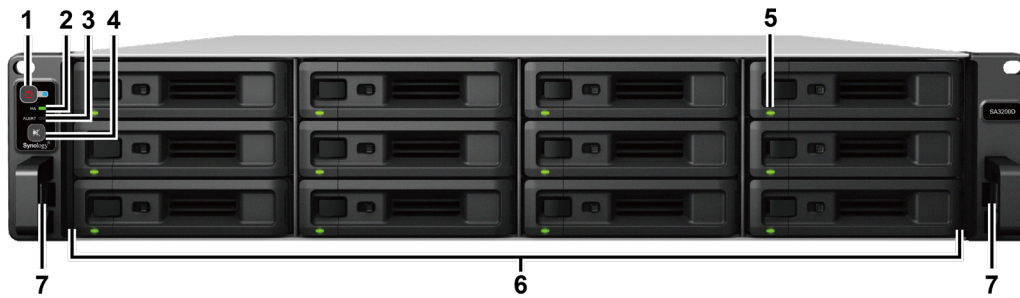
Synology NAS SA3200D is an enterprise server consisting of both system hardware and the software operating system, DiskStation Manager (DSM). This manual will guide you through all configuration aspects of your SA3200D, including the hardware components, setup procedures, system maintenance, and initial troubleshooting instructions.

Note: All images below are for illustrative purposes only, and may differ from the actual product.

Package Contents

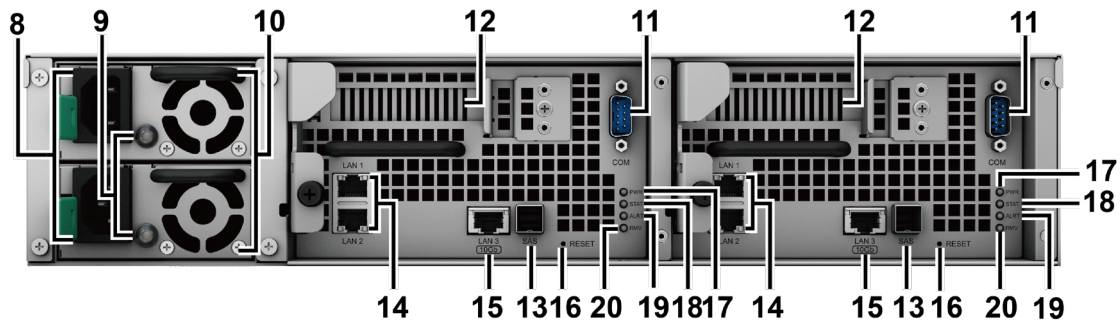
| Main unit x 1 | AC power cord x 2 |
|--|---|
|  |  |
| | Screws for 2.5" drives x 52 |
| |  |
| | Screws for 3.5" drives x 52 |
| |  |

Synology SA3200D at a Glance



| No. | Article Name | Location | Description |
|-----|----------------------------|----------|--|
| 1 | Power Button and Indicator | Front | 1. Press to power on your Synology NAS. 2. To power off the Synology NAS, press and hold until you hear a beep sound and the Power LED starts blinking. |
| 2 | HA Status Indicator | | Displays the status of the HA (High Availability). For more information, see "LED Indicator Table." |
| 3 | Alert Indicator | | Displays warnings regarding fan or temperature. For more information, see "LED Indicator Table." |
| 4 | Beep Off Button | | Press to deactivate the beeping sound that is emitted when a malfunction occurs. |
| 5 | Drive Status Indicator | | Displays the status of drives. For more information, see "LED Indicator Table." |
| 6 | Drive Tray | | Install drives (hard disk drives or solid state drives) here. |
| 7 | Rail Kit Release Tab | | Push in and hold to release the Synology NAS from the rail kit lock. ¹ |

¹ For more information about the rail kit installation, please refer to the Quick Installation Guide that comes with the rail kit.



| No. | Article Name | Location | Description |
|-----|-----------------------------------|----------|---|
| 8 | Power Port | Back | Connect power cords here. |
| 9 | PSU Indicator and Beep Off Button | | <ol style="list-style-type: none"> 1. Displays the status of the power supply unit (PSU). For more information, see "LED Indicator Table." 2. Press to deactivate the beeping sound that is emitted when a malfunction occurs. |
| 10 | PSU Fan | | Disposes of excess heat and cools the PSU. |
| 11 | Console Port | | This port is used for manufacturing use only. |
| 12 | PCI Express Expansion Slot | | Supports additional PCIe network interface cards. |
| 13 | SAS OUT Port | | Connect to Synology Expansion Unit ² here. |
| 14 | 1GbE LAN Port | | Connect RJ-45 network cables here. |
| 15 | 10GBase-T LAN Port | | Connect RJ-45 network cables here. |
| 16 | RESET Button | | <ol style="list-style-type: none"> 1. Press and hold until you hear a beep sound to restore the default IP address, DNS server, and password for the admin account. 2. Press and hold until you hear a beep sound, then press and hold again until you hear three beep sounds to return the Synology NAS to "Ready" status so that DSM can be initialized. |
| 17 | Power Indicator | | Displays the status of the power supply of the controller. For more information, see "LED Indicator Table." |
| 18 | Status Indicator | | Displays the status of the controller. For more information, see "LED Indicator Table." |
| 19 | Alert Indicator | | Displays warnings regarding fan or temperature of the controller. For more information, see "LED Indicator Table." |
| 20 | Remove Indicator | | Displays the status indicating whether the controller is removable. For more information, see "LED Indicator Table." |

² For more information about Synology Expansion Unit supported by your Synology NAS, please visit www.synology.com.

Hardware Specification



| Item | SA3200D |
|-------------------------|--|
| Compatible Drive Type | 3.5" / 2.5" SAS x 12 |
| Maximum Raw Capacity | <ul style="list-style-type: none"> • 192 TB (12 x 16 TB HDD) • 576 TB with 2 x RXD1219sas (Expansion unit) |
| External Device Port | SAS OUT x 1 (Per controller) |
| LAN Port | <ul style="list-style-type: none"> • 1GbE (RJ-45) x 2 (Per controller) • 10GBase-T (RJ-45) x 1 (Per controller) |
| PCIe Slot | Gen3 x 8 slots (x8 link) x 1 (Per controller) |
| Size (H x W x D) (mm) | <ul style="list-style-type: none"> • 88 x 482 x 724 (with server ears) • 88 x 430.5 x 692 |
| Weight (kg) | 19.7 |
| Supported Client | <ul style="list-style-type: none"> • Windows 7 and 10 • Mac OS X 10.11 onward |
| File System | <ul style="list-style-type: none"> • Internal: Btrfs, ext4 |
| Supported RAID Type | <ul style="list-style-type: none"> • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10 • Synology RAID F1 |
| Agency Certification | <ul style="list-style-type: none"> • FCC Class A • CE Class A • BSMI Class A • EAC • VCCI • CCC • KC • RCM • RoHS Compliant |
| Language Localization | <ul style="list-style-type: none"> • English • Deutsch • Français • Italiano • Español • Dansk • Norsk • Svensk • Nederlands • Русский • Polski • Magyar • Português do Brasil • Português Europeu • Türkçe • Český • 日本語 • 한국어 • ไทย • 繁體中文 • 简体中文 |
| Environment Requirement | <ul style="list-style-type: none"> • Line voltage: 100V to 240V AC • Frequency: 50 to 60Hz • Operating Temperature: 32 to 95°F (0 to 35°C) • Storage Temperature: -5 to 140°F (-20 to 60°C) • Relative Humidity: 5% to 95% RH |

Note: Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.




Optional Accessories

With Synology accessories, you can customize your Synology NAS to fit different business environments without worrying about compatibility and stability. Visit www.synology.com/compatibility for more information.


- **Memory Module**

| Model Name | Picture | Description |
|---------------|---|----------------------------|
| D4EC-2666-8G |  | 8 GB D4EC-2666 ECC U-DIMM |
| D4EC-2400-16G |  | 16 GB D4EC-2400 ECC U-DIMM |


- **PCIe Add-in Card**

| Model Name | Picture | Description |
|------------|---|---|
| E10G18-T2 |  | Dual-port, 10GbE RJ-45 Network Interface Card |
| E10G18-T1 |  | Single-port, 10GbE RJ-45 Network Interface Card |
| E10G17-F2 |  | Dual-port, 10GbE SFP+ Network Interface Card |





- **Expansion Unit**

| Model Name | Picture | Description |
|------------|---|---|
| RXD1219sas |  | 12-bay Rackmount type expansion unit, compatible with 3.5"/2.5" SAS drives, up to 2 units connections |







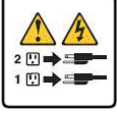

- **Rail Kit**

| Model Name | Picture | Description |
|------------|---|-------------------------|
| RKS1317 |  | Sliding rails solutions |

- **Spare Part**

| Model Name | Picture | Description |
|----------------------|---|---|
| Disk Tray (Type R7) |  | 3.5"/2.5" Drive Tray |
| FAN 60*60*51_2 |  | System Fan Module |
| PSU 500W-RP Module_2 |  | Redundant PSU Module |
| PSU 500W-RP SET_2 |  | Redundant PSU Set (Cage x 1, PSU Module x 2) |

Safety Instructions

| | |
|---|---|
|  | <p>Keep away from direct sunlight and away from chemicals. Make sure the environment does not experience abrupt changes in temperature or humidity.</p> |
|  | <p>Place the product right side up at all times.</p> |
|  | <p>Do not place near any liquids.</p> |
|  | <p>Before cleaning, unplug the power cord. Wipe with damp paper towels. Do not use chemical or aerosol cleaners.</p> |
|  | <p>To prevent the unit from falling over, do not place on carts or any unstable surfaces.</p> |
|  | <p>The power cord must plug in to the correct supply voltage. Make sure that the supplied AC voltage is correct and stable.</p> |
|  | <p>To remove all electrical current from the device, ensure that all power cords are disconnected from the power source.</p> |
|  | <p>Risk of explosion if battery is replaced with an incorrect type. Dispose of used batteries appropriately.</p> |

CAUTION: Restricted Access Location

This server is intended for installation only in restricted access locations as defined where both these conditions apply:

- Access is through the use of a lock or tool and key, or other means of security, and is controlled by the authority responsible for the location.
- Access can only be gained by service persons or by users who have been instructed about the reasons for the restrictions applied to the location and about any precautions that shall be taken.

Hardware Setup

Tools and Parts for Component Installation

Please prepare tools and parts below before setting up your Synology NAS:

- A screwdriver.
- At least one 3.5" or 2.5" SAS drive (please visit www.synology.com/compatibility for compatible drive models).

Warning: If you install a drive that contains data, the system will format the drive and erase all existing data. Please back up any important data before installation.

- Rail mounting kit. (please see the **Optional Accessories** section to find out the suitable rail kit for cabinet installation)

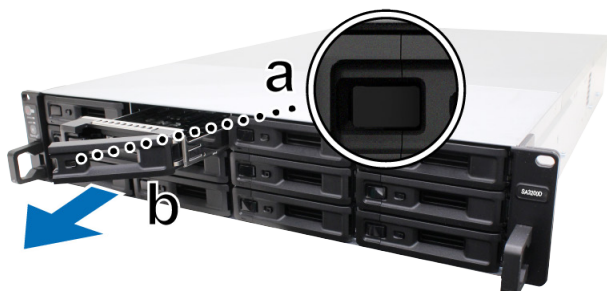
Warning: We suggest mounting your Synology NAS on a cabinet before installing any drives since the heavy weight will increase the installation difficulty.

Install Drives

Please follow steps below for drive installation:

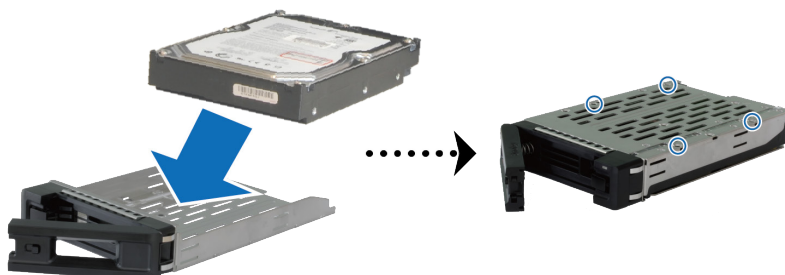
1 Open the drive tray:

- Find the small button located on the left side of the drive tray handle. Press the button down, and the drive tray handle will pop out.
- Pull the drive tray handle out as illustrated below.

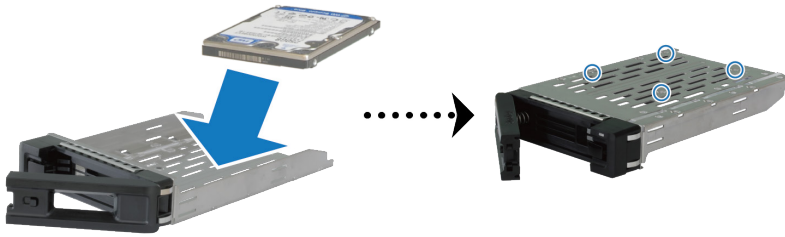


2 Install drives:

- **For 3.5" drives:** Place the drive in the drive tray. Turn the tray upside down and tighten screws into the four spots indicated below to secure the drive.



- **For 2.5" drives:** Place the drive in the drive tray. Turn the tray upside down and tighten screws into the four spots indicated below to secure the drive.

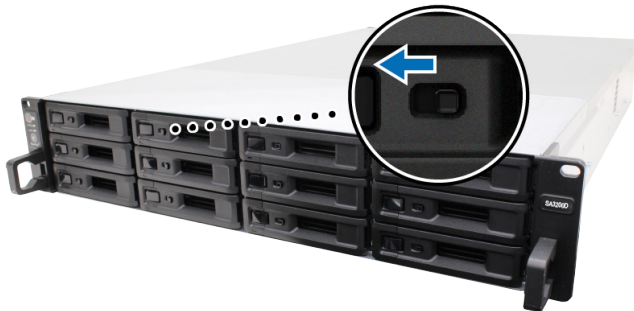


- 3 Insert the loaded drive tray into the empty drive bay.



Note: Make sure the tray is pushed in all the way. Otherwise, the drive might not be able to function properly.

- 4 Push the handle inward to secure the drive tray.
- 5 Push the switch on the drive tray handle to the left to lock the drive tray.



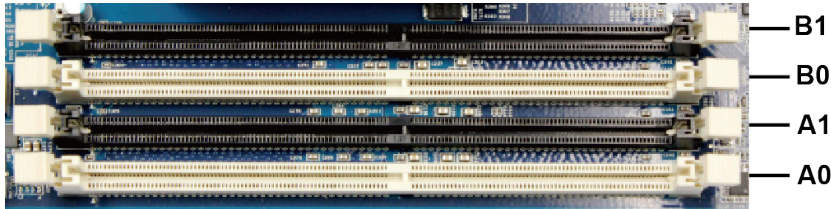
- 6 Repeat the steps above to assemble the other drives you have prepared.
- 7 Drives are numbered as shown below.



Note: We suggest installing drives of the same size to optimize drive capacity usage when creating RAID volumes.

Install Memory Modules

You must install genuine Synology memory module(s) to ensure system compatibility and reliability. Be sure to follow the configurations below for the suggested installation sequence of different memory capacities, otherwise the system may not boot successfully, or system performance and stability may suffer.

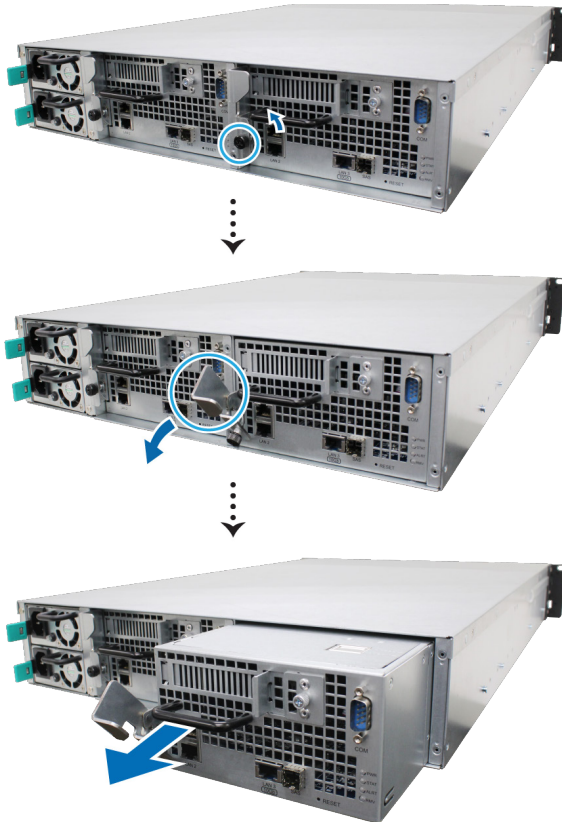


| A0 | A1 | B0 | B1 | Total Memory |
|-------|-------|-------|-------|--------------|
| 8 GB | - | - | - | 8 GB |
| 16 GB | - | - | - | 16 GB |
| 8 GB | - | 8 GB | - | 16 GB |
| 8 GB | 8 GB | 8 GB | - | 24 GB |
| 8 GB | 8 GB | 8 GB | 8 GB | 32 GB |
| 16 GB | - | 16 GB | - | 32 GB |
| 8 GB | 8 GB | 16 GB | 16 GB | 48 GB |
| 16 GB | 16 GB | 16 GB | - | 48 GB |
| 16 GB | 16 GB | 16 GB | 16 GB | 64 GB |

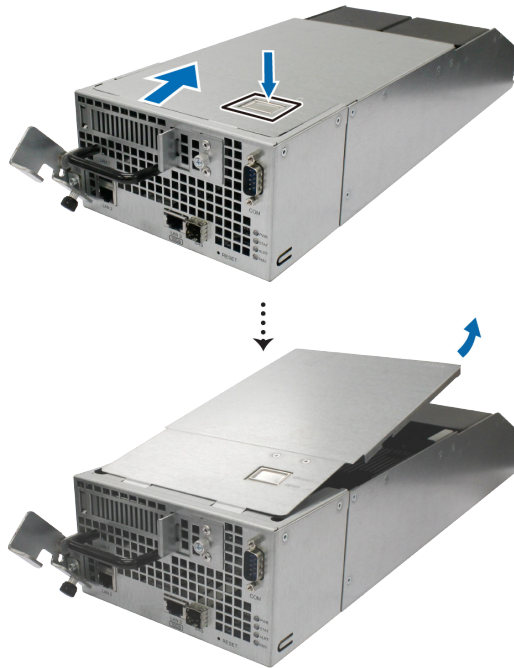
Follow the steps below to install, check, or remove a memory module on your SA3200D.

To install the RAM module:

- 1 Shut down your SA3200D. Disconnect all cables connected to your SA3200D to prevent any possible damage.
- 2 As shown below, loosen the screws that secure the controller on the back of SA3200D by turning it counterclockwise. Pull the release lever to pull out one controller.

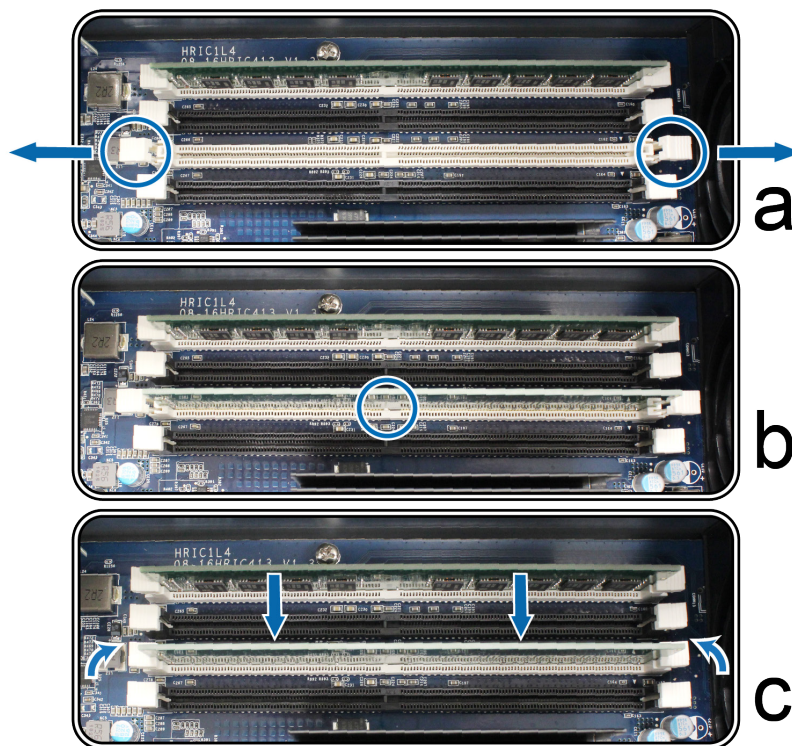


- 3 Press the release button on the rear top cover. Slightly push backward to lift the rear top cover.



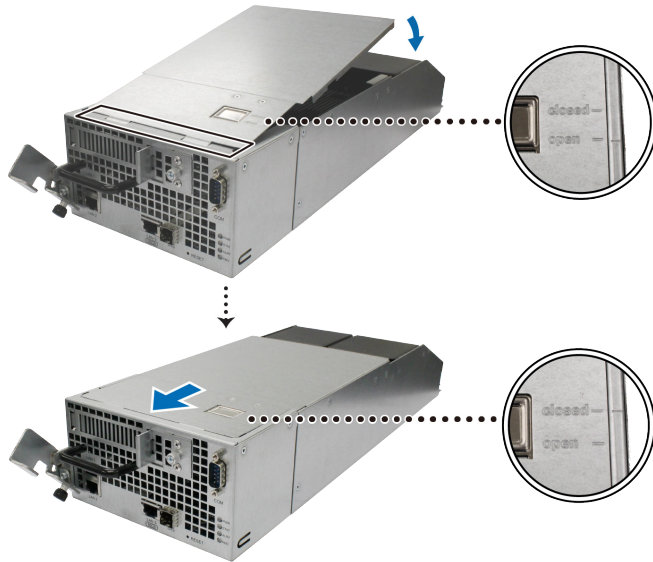
Note: When you remove the rear top cover, the sensitive internal components are exposed. Avoid touching anything other than the memory assembly when you remove or add memory.

- 4 Insert the new memory module in the slot:
- a Push the retaining clips on the slot out to the sides.
 - b Align the notch on the gold edge of the module with the notch in the memory slot.
 - c Push down on the memory module with firm and even pressure. The retaining clips will snap into position as the module is correctly inserted.

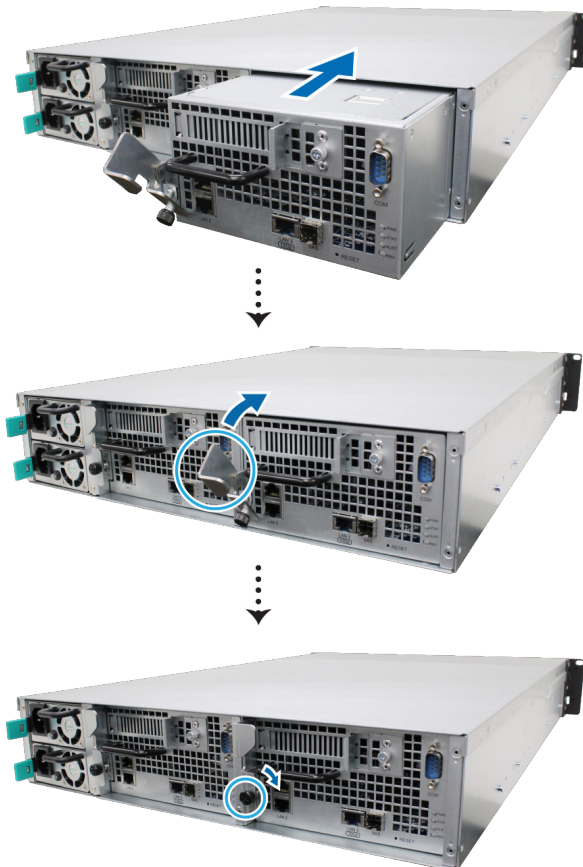


Note: Hold the memory module by its edges, and do not touch the gold connectors.

- 5 Put back the rear top cover removed in step 3:
- a Align the front side of rear top cover with the slots on the chassis' edge.
 - b Align the notch on the chassis to the "open" next to the release button as shown below.
 - c Slightly push the rear top cover back to "closed".



- d Insert the controller back in SA3200D. Push back the release lever and turn the screw clockwise to secure the controller.

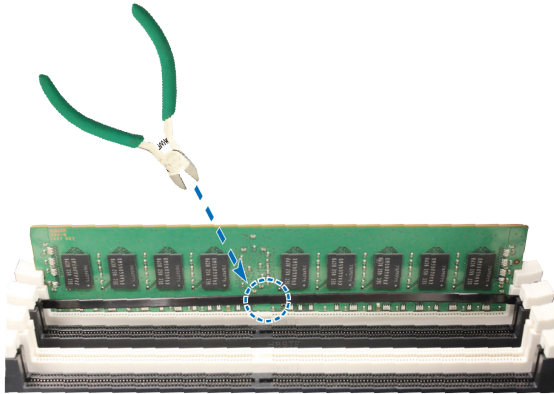


To make sure SA3200D recognizes the new memory capacity:

- 1 Log in to DSM as **admin** or a user belonging to the **administrators** group.
- 2 Check **Total Physical Memory** in **Control Panel > Info Center**.

To remove the RAM Module:

- 1 Follow step 1 to 3 of the **To install the RAM module** section to shut down your SA3200D, disconnect the cables, pull out one controller and remove the rear top cover of the controller.
- 2 Cut the cable tie before removing the memory module. (The pre-installed memory module is cable tied to prevent loosening during delivery.)



Note: Avoid touching any components of the motherboard when you cut the cable tie.

- 3 Disengage the memory retaining clips by pushing them outwards, and the module will pop out of the slot.
- 4 Follow step 5 of the **To install the RAM module** section to put back the top rear cover and insert the controller back in SA3200D.

Install PCIe Add-in Cards

SA3200D provides one PCIe slot for optional add-in card expansion, allowing network interface card to be installed.

To install the network interface cards:

- 1 Shut down your SA3200D. Disconnect all cables connected to your SA3200D to prevent any possible damages.
- 2 Pull out one controller and remove the rear top cover by following step 2 and 3 of the **To install the RAM module** section.
- 3 Install the network interface card:
 - a Loosen the screw that secures the expansion slot's cover by turning it counterclockwise, and move it to the right.
 - b Slightly push the expansion slot's cover to remove it.



- c Align the card's connector with the expansion slot, and insert the card into the slot.



Note: Make sure the connector is fully inserted. Otherwise, the network interface card might not be able to function properly.

d Turn the screw clockwise to secure the newly inserted card.



4 Repeat step 3 to install the other network interface card for the other controller.

5 Put back the rear top cover by following step 5 of the **To install the RAM module** section.

Install and Remove Rail Kits

Here we use RKS1317 as an example to illustrate how to install or remove the rail kits. For more information about the rail kit installation, please refer to the Quick Installation Guide that comes with the rail kit.

Front

Rear

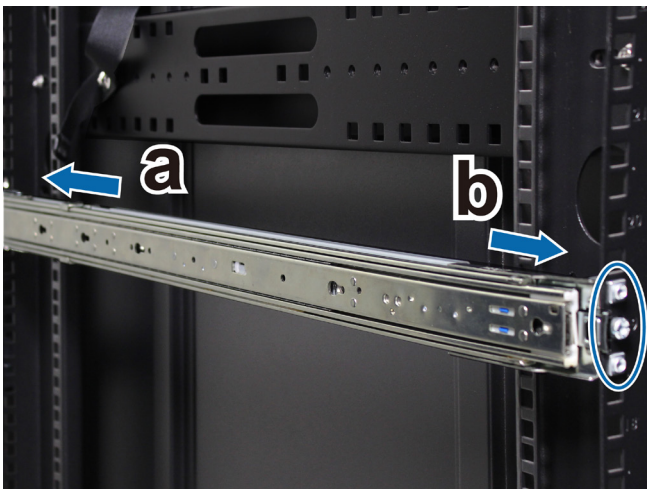


To install the rail kit:

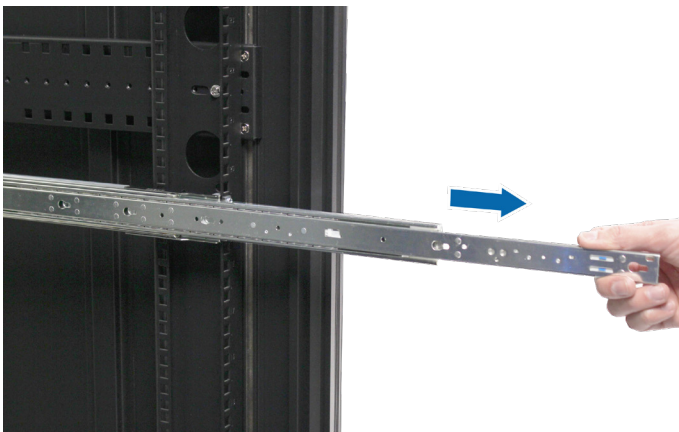
1 To install the rail kit to the rack:

a Attach the rear end of the rail kit assembly to the rack.

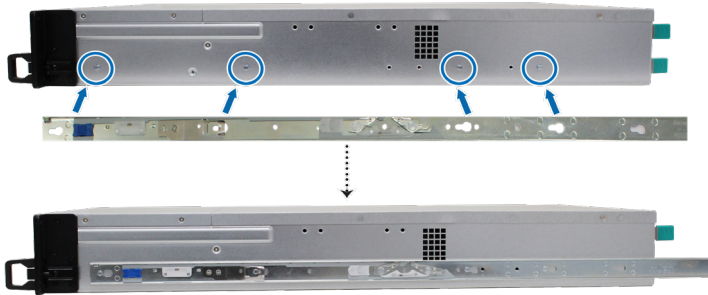
b Slide the front latch outwards and insert the brackets into the rack holes.



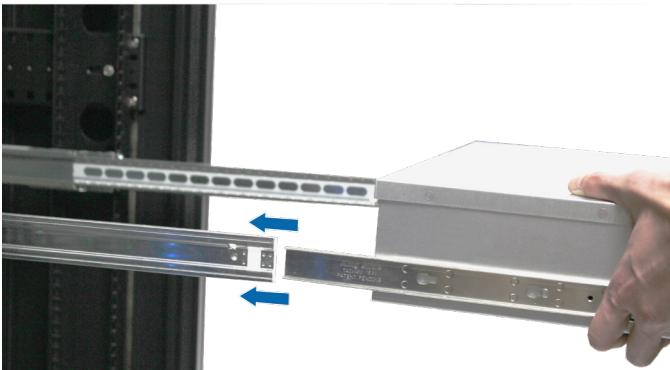
2 Extend and pull out the inner rail from the assembly.



- 3 Align the fixing holes of the inner rail to the side of the chassis and slide backward to attach the inner rail.



- 4 With the help of another person, carefully align the inner rail to the outer rail assembly.



- 5 Pull and hold the front latch of the inner rail to unlock the inner rail, and push the chassis towards the rack. Use the cage nuts and screws in the rail kit package to secure the chassis to the rack if necessary.



To remove the rail kit:

- 1 To remove the chassis from the rack, hold the rail kit release tabs on the ear holders and pull out the chassis from the rack.



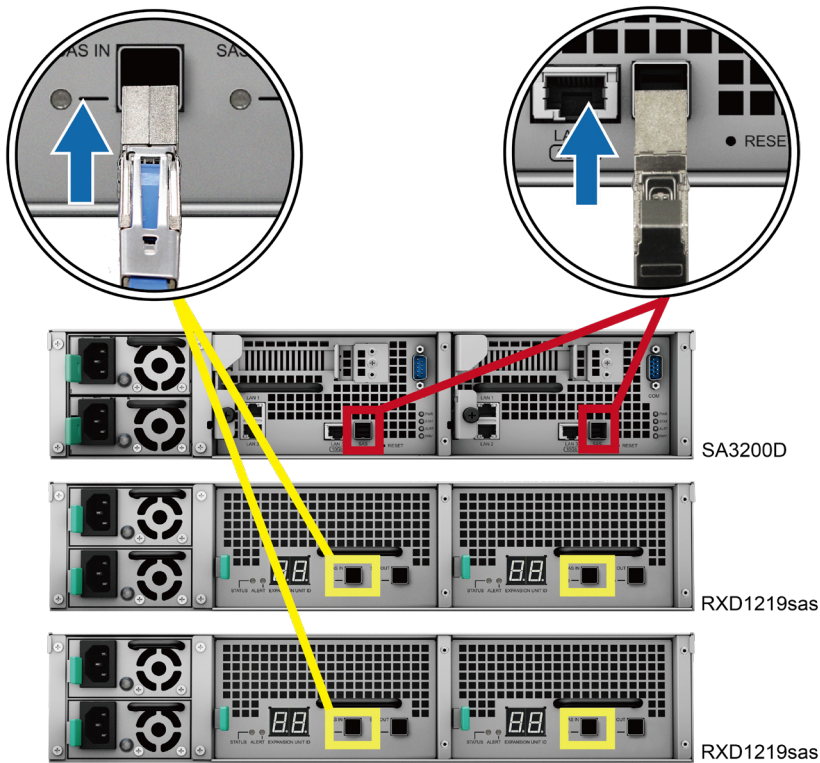
- 2 With the help of another person, carefully remove the chassis from the rack. Then, slide forwards to remove the inner rail from the chassis.

Expansion Unit Deployment and Topology

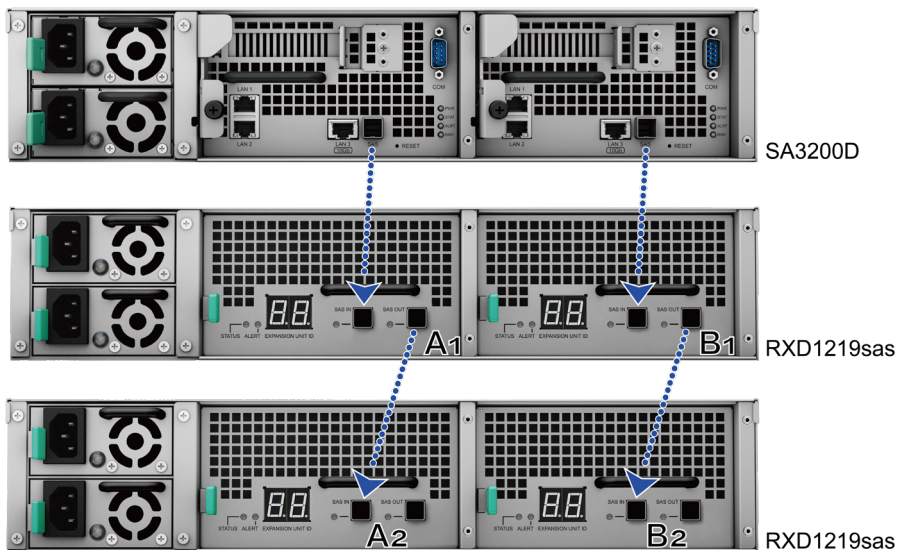
SA3200D supports working with up to two RXD1219sas (12-bay) expansion units, providing seamless storage expansion whenever needed. This section will guide you through how to connect the expansion units to your Synology NAS.

To connect RXD1219sas with SA3200D:

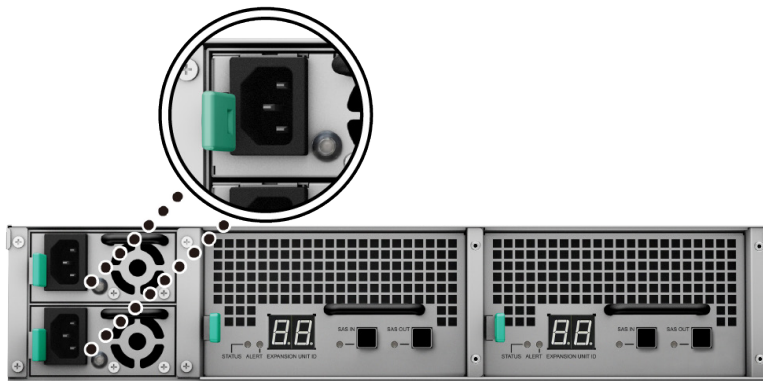
- 1 Connect one end of mini-SAS HD cable to the SAS port of your SA3200D and the other to the SAS-IN port of RXD1219sas. Make sure the release band (in blue) of the cable faces **upward** when plugging into the SA3200D, and that of the cable faces **upward** when plugging into RXD1219sas; otherwise, the SA3200D and expansion unit will not be correctly connected.



- 2 Connect one end of mini-SAS HD cable to the SAS-OUT port on SAS module A of an expansion unit (e.g., module A1), and the other end to the SAS-IN port on SAS module A of the next expansion unit (e.g., module A2).
- 3 Connect one end of mini-SAS HD cable to the SAS-OUT port on SAS module B of an expansion unit (e.g., module B1), and the other end to the SAS-IN port on SAS module B of the next expansion unit (e.g., module B2).



- 4 Connect one end of the power cord(s) to the power port of RXD1219sas, and the other to the power outlet(s). RXD1219sas will automatically power on once the power cords are correctly connected.

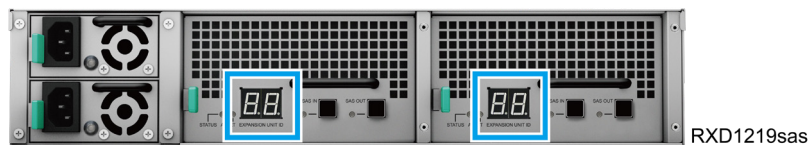


Note:

- RXD1219sas comes equipped with a redundant power supply system, allowing two power cords to be connected. The system may be powered on with only one power cord, but we recommend using two power cords to avoid unexpected power failures.
- Your Synology NAS supports up to two expansion units.

Important: Do not remove the expansion cable while the host device is still powered on. Doing so may result in data loss.

- 5 Press the power button on the front panel to power on your SA3200D. The expansion unit ID of RXD1219sas connected to SA3200D will be displayed in sequence on the back panel.

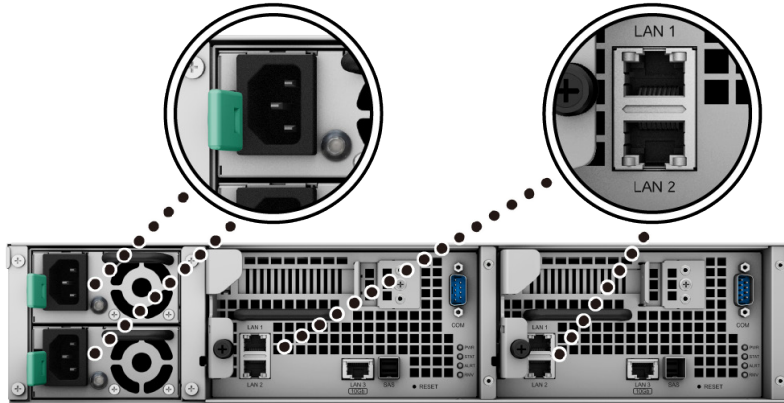


Note: Even with the Synology NAS and expansion unit(s) powered on, you can still expand with one or two expansion unit if needed. To do so, repeat above steps to connect the expansion cables and power cords of the other expansion units. Your expansion units will automatically power on if they are correctly connected, and the expansion server ID will be displayed accordingly after a few seconds (if DSM is correctly initialized in the Synology NAS server).

Start up Your Synology NAS

To start up your SA3200D:

- 1 Connect one end of each power cord to the power ports located on the back of the SA3200D and the other end to a power outlet.
- 2 Connect at least one LAN cable to one of the LAN ports and the other end to your switch, router, or hub.



- 3 Press the power button to turn on the SA3200D.



Note:

1. To turn on both controllers, press the power button.
2. To turn off both controllers, press and hold the power button until you hear a beep sound and the Power LED indicator starts blinking.
3. If one controller is powered on and the other is powered off, press the power button and the controller that is powered off will be booting up while the other will not be affected.
4. If either of the controllers is powered on, press the power button and hold for about 10 seconds and the system will be forced to shut down.

Congratulations! Your Synology NAS is now online and detectable from a network computer.

LED Indicator Table

| Location | LED Indicator | Color | Status | Description |
|-------------|----------------------------------|--|---------------------------------|--|
| Front Panel | Power | Blue | Static | Powered on |
| | | | Blinking | Booting up / Shutting down on one of the controller |
| | | Off | Powered off | |
| | HA STATUS | Green | Static | Both controllers are powered on and HA (High Availability) status is normal |
| | | Orange | Blinking | Both controller modules are installed and powered on, but HA (High Availability) status is abnormal |
| | | | | Both controller modules are installed, one of the controller is powered on while the other is booting up |
| | | | | Only one controller module is installed and powered on |
| | | Off | Both controllers are booting up | |
| | Off | Only one controller module is installed and booting up | | |
| | ALERT ^{1 2} | Orange | Blinking | Fan failure / Over temperature on one controller while the other is normal |
| | | | | Fan failure / Over temperature on both controllers |
| | | Off | System normal | |
| | | | Both controllers are booting up | |
| | Drive Status Indicator (on tray) | Green | Static | Drive ready and idle |
| | | | Blinking | Accessing drive |
| | | Red | Static | Drive error / Port disabled ³ |
| Off | | No internal drive | | |

¹ If one controller is powered on while the other is booting up, the ALERT indicator will display the controller's status that is powered on.

² If the system contains only one controller, the ALERT indicator will only display that controller's status.

³ Please try to restart your Synology NAS or re-insert the drive(s), and then run the HDD/SSD manufacturer's diagnostic tool to check the health status of the drive(s). If you can log into DSM, please run the built-in S.M.A.R.T. test to scan the drive(s). If the problem remains unresolved, please contact Synology Technical Support for help.

| Location | LED Indicator | Color | Status | Description |
|-------------|--------------------------------------|--------|----------|--|
| Controllers | Power | Green | Static | Power supply normal |
| | | | Blinking | Booting up / Shutting down |
| | | Off | | Powered off |
| | STATUS | Green | Static | Volume normal / Volume not created |
| | | | Blinking | Volume degraded / Volume crashed |
| | | Off | | Both controllers are booting up / shutting down |
| | ALERT | Red | Blinking | Fan failure / Over temperature |
| | | Off | | System normal |
| | REMOVE | Green | Static | Controllers ready to be removed |
| | | Off | | Controllers cannot be removed |
| Back Panel | 1GbE LAN (on left side of jack) | Green | Static | Network connected |
| | | Off | | No network |
| | 1GbE LAN (on right side of jack) | Green | Static | Network connected |
| | | | Blinking | Network active |
| | | Off | | No network |
| | 10GbE LAN (on left side of jack) | Green | Static | 10 Gbps connected |
| | | Orange | | 5 / 2.5 / 1 Gbps connected 100 Mbps connected |
| | | Off | | No network |
| | 10GbE LAN (on right side of jack) | Green | Static | Network connected |
| | | | Blinking | Network active |
| | | Off | | No network |
| | PSU Indicator | Green | Static | Power supply unit normal |
| | | Off | | Power supply unit off |

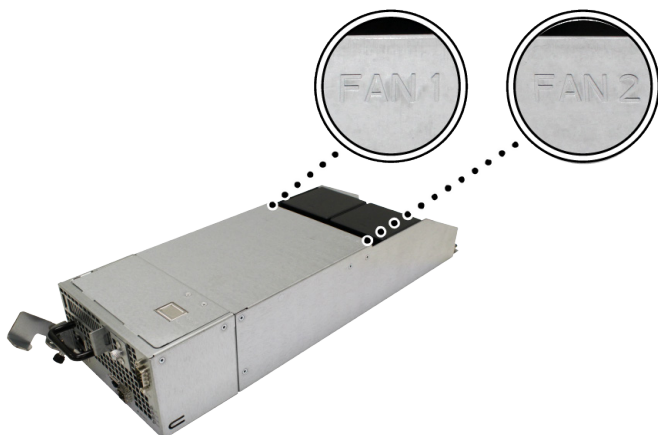
Note: Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

System Maintenance

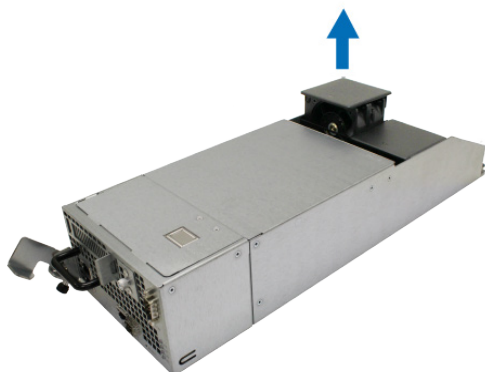
Replace System Fan

If a system fan malfunctions, please see the instructions below to replace the malfunctioning fan of SA3200D.

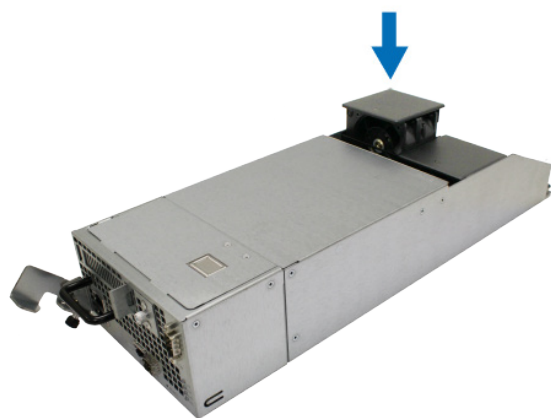
- 1 Follow step 1 and 2 of the **To install the RAM module** section to shut down your SA3200D, disconnect the cables and pull out one controller.
- 2 Fans are numbered on rear top cover of the controller, as indicated below.



- 3 Find the malfunctioning fan. Lift the fan upward to remove it.



- 4 Prepare a new fan, and slide it into the controller. Make sure the fan is properly slide in.



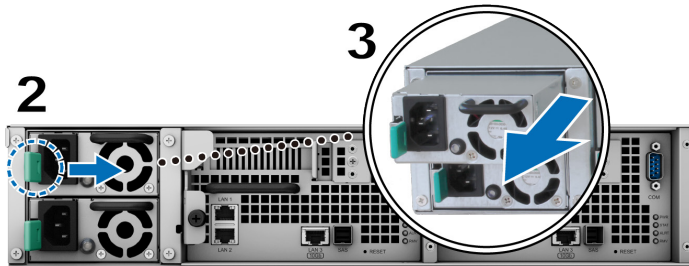
Replace Power Supply Unit (PSU)

If a PSU or its fan malfunctions, please see the instructions below to replace the malfunctioning PSU.

- 1 Unplug the power cord from the PSU to be replaced.

Note: By pressing the **Beep Off** button, you can silence the long beeping sound when you hear it.

- 2 Push the lever of the PSU at the back panel in the indicated direction.
- 3 Pull out the PSU from your SA3200D.



- 4 Prepare a new PSU, and push it back to the slot until you hear a click.

Initial Troubleshooting Guide

We have selected several helpful articles on frequently asked questions to help you do initial troubleshooting on your Synology NAS:

- General
 - [What can I do to troubleshoot NAS connection problems?](#)
 - [What is the width of my RackStation server?](#)
 - [Why does my Synology NAS make unusual noises?](#)
 - [How to reset my Synology NAS](#)
- Hard Disk Drive
 - [How to diagnose drives' health status when receiving bad sector warning?](#)
 - [How to fix hard drive failure and retrieve the data from your hard drives](#)
 - [What should I do if my Synology NAS cannot recognize installed drives?](#)
 - [How do I know whether the problem is with my Synology NAS or drive when drive errors occur?](#)
- Memory
 - [Are there any requirements for installing or expanding system memory capacity?](#)
 - [How can I run a memory test on my Synology NAS?](#)
- LED
 - [What can I do if the STATUS LED keeps flashing orange?](#)
 - [Why can't my Synology NAS be powered on and why is the POWER LED indicator blinking constantly?](#)
 - [Why does the HA STATUS LED keep flashing orange?](#)
- Fan
 - [What type of fan speed modes are available on my Synology NAS?](#)

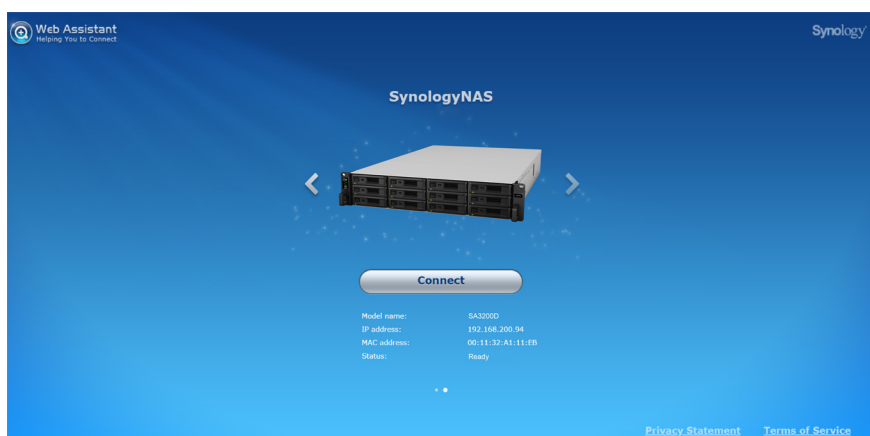
Initialize DSM on Synology NAS

After hardware setup is finished, please initialize DiskStation Manager (DSM) – Synology’s browser-based operating system – on your SA3200D.

Initialize DSM with Web Assistant

Your SA3200D comes with a built-in tool called **Web Assistant** that helps you download the latest version of DSM from the Internet and install it on your SA3200D. To use Web Assistant, please follow the steps below.

- 1 Power on your SA3200D.
- 2 Open a web browser on a computer connected to the same network as the SA3200D.
- 3 Enter either of the following into the address bar of your browser:
 - a find.synology.com
 - b synologynas:5000
- 4 Web Assistant will be launched in your web browser. It will search for and find the Synology NAS within the local network. The status of the SA3200D should be **Ready**.



- 5 Click **Connect** to start the setup process and follow the onscreen instructions.

Note:

1. The Synology NAS must be connected to the Internet to initialize DSM with Web Assistant
2. Suggested browsers: Chrome, Firefox.
3. Both the Synology NAS and the computer must be in the same local network.

- 6 If you accidentally leave the setup process before it is finished, log in to the DSM as **admin** (default administrative account name) with the password left blank.

Learn More

Congratulations! Your SA3200D is now ready for action. For more information or online resources about your SA3200D, please visit www.synology.com.

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Section 16. Assignment. You may not transfer or assign your rights under this EULA to any third party, except for that pre-installed in the Products. Any such transfer or assignment in violation of the foregoing restriction will be void.

Section 17. Applicable Law. Unless expressly prohibited by local law, this EULA is governed by and construed in accordance with the laws of the country, in accordance with which Synology Inc. was organized without regard to any conflict of law principles to the contrary.

Section 18. Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this EULA will be resolved exclusively and finally by arbitration conducted by three neutral arbitrators in accordance with the procedures of the Arbitration Law and related enforcement rules of the country in which Synology Inc. was organized. In such cases, the arbitration will be limited solely to the dispute between you and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall take place in Taipei and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. You understand that, in the absence of this provision, you would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and you expressly and knowingly waive those rights and agree to resolve any disputes through binding arbitration in accordance with the provisions of this Section 18. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this EULA relating to Synology's intellectual property rights.

Section 19. Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this EULA, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

Section 20. Severability. If any provision of this EULA is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this EULA will remain in full force and effect.

Section 21. Entire Agreement. This EULA sets forth the entire agreement of Synology and you with respect to the Software and the subject matter hereof and supersedes all prior and contemporaneous understandings and agreements whether written or oral. No amendment, modification or waiver of any of the provisions of this EULA will be valid unless set forth in a written instrument signed by the party to be bound thereby.

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Section 1. Products

(a) "Products" refer to New Products or Refurbished Products. (b) "New Product" means the Synology-branded hardware product and Synology-branded accessories contained in the original packaging Customer bought from an authorized Synology distributor or reseller. You may see our "New Product" at <https://www.synology.com/products/status>. (c) "Refurbished Product" means all Synology products which have been refurbished by Synology's affiliate or an authorized Synology distributor or reseller, not including those sold as "as is" or with "no warranty" by anyone. (d) Other definition: "Customer" means the original person or entity purchasing the Product from Synology or an authorized Synology distributor or reseller; "Online Store" means an online shop operated by Synology or Synology's affiliate; "Software" means the Synology proprietary software that accompanies the Product when purchased by Customer, is downloaded by Customer from the Web Site, or is pre-installed on the Product by Synology, and includes any firmware, associated media, images, animations, video, audio, text and applets incorporated into the software or Product and any updates or upgrades to such software.

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(a) "Warranty Period": The warranty period commences on the purchase date is shown on the purchase receipt or invoice to be presented by Customer and ending at the day after the end of the Warranty Period for each New Product. You may see the Warranty Period for each New Product at <https://www.synology.com/products/status>. For the Refurbished Product or repaired parts, it's the remainder of the warranty period of the product they are replacing, or ninety (90) days from the date the product was replaced or repaired, whichever is longer; except for those sold as "as is" or with "no warranty" by any stores. Without presenting such purchase receipt or invoice, the warranty period shall commence on the date of manufacture based on our internal record. (b) "Extended Warranty Period": For Customer purchasing EW201/ EW202 optional service for applicable Products specified in Section 1 (b), the Warranty Period specified in Section 2 (a) of the applicable Product registered with EW201/EW202 optional service will be extended by two years. You may see the applied model at https://www.synology.com/products/Extended_Warranty.

Section 3. Limited Warranty and Remedies

3.1 Limited Warranty. Subject to Section 3.2, Synology warrants to the Customer that each Product (a) will be free of material defects in workmanship and (b) under normal use will perform substantially in accordance with Synology's published specifications for the Product during the Warranty Period. Such limited warranty does not apply to the Software contained in the product or purchased by Customer which shall be subject to the accompanying end user license agreement provided with the Product. Synology provides no warranty to Refurbished Product sold as "as is" or with "no warranty". This Limited Warranty is NOT transferable and applies only to the customers who directly purchase products from Synology's affiliate, the resellers, and distributor that Synology authorized. The warranty set forth in Section 3 will terminate upon Customer's sale or transfer of the Product to a third party.

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3.3 Warranty Support and Exclusive Remedy. If Customer gives notice of noncompliance with any of the warranties set forth in Section 3.1 within the applicable Warranty Period in the manner set forth below, then, upon verification of the noncompliance by Synology, Synology will, at Synology's option: (a) use commercially reasonable efforts to repair the Product, (b) provide technical support, or (c) replace the noncomplying Product or part thereof upon return of the complete Product in accordance with Section 3.4. The foregoing sets forth Synology's entire liability and Customer's sole and exclusive remedy for any breach of warranty under Section 3.1 or any other defect or deficiency in the Product. Customer will reasonably assist Synology to diagnose and validate any nonconformity with the Product.

3.4 Return. Any Product return by Customer under Section 3.3 must be made in accordance with Synology's then-current return procedures with the purchase receipt or invoice. You may see more information about return procedure at https://www.synology.com/knowledgebase/DSM/tutorial/Service_Application/How_to_make_warranty_claim_for_Synology_NAS, for warranty claims, Customer must return the complete Product to Synology in accordance with this Section 3.4. Any Product returned that has been disassembled (except under the direction of Synology) will be refused and returned to Customer at Customer's expense. Any Product must be returned in the same condition as it was received from Synology to the address designated by Synology, freight pre-paid, in packaging sufficient to protect the contents thereof. Customer is responsible for insurance and risk of loss with respect to returned items until they are properly received by Synology.

3.5 Replacement by Synology. If Synology elects to replace any Product under this Warranty set forth in Section 3.1, then Synology will ship a replacement Product at Synology's expense via the shipping method selected by Synology after receipt of the nonconforming Product returned in accordance with Section 3.4 and validation by Synology that the Product does not conform to the warranty. In some countries, Synology may at its own discretion apply the Synology Replacement Service to certain Products, through which Synology will ship a replacement Product to Customer before its receipt of the nonconforming Product returned by Customer ("Synology Replacement Service").

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5.3 No Additional Terms. Except as expressly permitted by this Warranty, neither party will be bound by, and each party specifically objects to, any term, condition or other provision that conflicts with the provisions of this Warranty that is made by the other party in any purchase order, receipt, acceptance, confirmation, correspondence or otherwise, unless each party specifically agrees to such provision in writing. Further, if this Warranty conflicts with any terms or conditions of any other agreement entered into by the parties with respect to the Product, this Warranty will prevail unless the other agreement specifically references the sections of this Warranty that it supersedes.

5.4 Applicable Law. Unless explicitly prohibited by local law, this Warranty is governed by the laws of the State of Washington, U.S.A. for the Customers residing within the United States; and by the laws of the Republic of China (Taiwan) for Customers not residing within the United States, without regard to any conflict of law principles to the contrary. The 1980 U.N. Convention on Contracts for the International Sale of Goods or any successor thereto does not apply.

5.5 Dispute Resolution. Any dispute, controversy or claim arising out of or relating to this Warranty, the Product or services provided by Synology with respect to the Product or the relationship between Customers residing within the United States and Synology will be resolved exclusively and finally by arbitration under the current commercial rules of the American Arbitration Association, except as otherwise provided below. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute between Customer and Synology. The arbitration, or any portion of it, will not be consolidated with any other arbitration and will not be conducted on a class-wide or class action basis. The arbitration shall be held in King County, Washington, U.S.A. by submission of documents, by telephone, online or in person as determined by the arbitrator at the request of the parties. The prevailing party in any arbitration or legal action occurring within the United States or otherwise shall receive all costs and reasonable attorneys' fees, including any arbitration fee paid by the prevailing party. Any decision rendered in such arbitration proceedings will be final and binding on the parties, and judgment may be entered thereon in any court of competent jurisdiction. Customer understands that, in the absence of this provision, Customer would have had a right to litigate any such dispute, controversy or claim in a court, including the right to litigate claims on a class-wide or class-action basis, and Customer expressly and knowingly waives those rights and agrees to resolve any disputes through binding arbitration in accordance with the provisions of this Section 5.5. For Customers not residing within the United States, any dispute, controversy or claim described in this section shall be finally resolved by arbitration conducted by three neutral arbitrators in accordance with the procedures of the R.O.C. Arbitration Law and related enforcement rules. The arbitration shall take place in Taipei, Taiwan, R.O.C., and the arbitration proceedings shall be conducted in English or, if both parties so agree, in Mandarin Chinese. The arbitration award shall be final and binding on the parties and may be enforced in any court having jurisdiction. Nothing in this Section shall be deemed to prohibit or restrict Synology from seeking injunctive relief or seeking such other rights and remedies as it may have at law or equity for any actual or threatened breach of any provision of this Warranty relating to Synology's intellectual property rights.

5.6 Attorneys' Fees. In any arbitration, mediation, or other legal action or proceeding to enforce rights or remedies under this Warranty, the prevailing party will be entitled to recover, in addition to any other relief to which it may be entitled, costs and reasonable attorneys' fees.

5.7 Export Restrictions. You acknowledge that the Product may be subject to U.S. export restrictions. You will comply with all applicable laws and regulations that apply to the Product, including without limitation the U.S. Export Administration Regulations.

5.8 Severability. If any provision of this Warranty is held by a court of competent jurisdiction to be invalid, illegal, or unenforceable, the remainder of this Warranty will remain in full force and effect.

5.9 Entire Agreement. This Warranty constitutes the entire agreement, and supersedes any and all prior agreements, between Synology and Customer related to the subject matter hereof. No amendment, modification or waiver of any of the provisions of this Warranty will be valid unless set forth in a written instrument signed by the party to be bound thereby.

FCC Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

この装置は、クラス A 機器です。この装置を住宅環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

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