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Synology RS2825RP+

Synology RS2825RP+ Rackmount NAS User Manual

Model: RS2825RP+

1. Introduction

This manual provides comprehensive instructions for the setup, operation, and maintenance of your Synology RS2825RP+ Rackmount NAS. Please read this manual thoroughly before using the device to ensure proper installation and optimal performance.
The Synology RS2825RP+ is a high-capacity, rack-mountable Network Attached Storage (NAS) solution designed for demanding business environments, offering robust data management, sharing, and backup capabilities with redundant power supplies for enhanced reliability.

2. Safety Information

Observe the following safety precautions to prevent damage to the device and ensure personal safety:

- **Power Supply:** Use only the power adapters provided with the device. Ensure the power outlets are properly grounded. This model features redundant power supplies.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the device, especially when rack-mounted, to prevent overheating.
- **Environment:** Operate the device in a clean, dry environment, away from direct sunlight, heat sources, and excessive moisture.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts. Due to its weight, it may require two people for safe handling and installation.
- **Servicing:** Do not attempt to service the device yourself. Refer all servicing to qualified personnel.

3. Package Contents

Verify that all items are present in the package:

- Synology RS2825RP+ NAS Unit
- AC Power Cords (x2 for redundant power supplies)
- RJ-45 LAN Cable(s)
- Quick Installation Guide

- Screws for 2.5" Drives (if applicable)
- Rackmount Rails (may be sold separately or included depending on bundle)

4. Product Overview

Familiarize yourself with the components of your Synology NAS.



Figure 4.1: Front View of Synology RS2825RP+ NAS

This image displays the front of the Synology RS2825RP+ rackmount NAS unit, featuring 16 hot-swappable drive bays, power button, and LED indicators for system status and drive activity. The model number RS2825RP+ is clearly visible on the right side.



Figure 4.2: Rear View of Synology RS2825RP+ NAS

This image shows the rear panel of the Synology RS2825RP+ rackmount NAS, highlighting the dual redundant power supply units, multiple Gigabit Ethernet LAN ports (including a 10GbE port), USB 3.0 ports, a COM port, and an expansion slot. Cooling fan vents are also prominent.

Front Panel Components:

- **Power Button:** Turns the NAS on or off.
- **Status Indicator:** Shows system status (e.g., normal, abnormal).
- **Drive Status Indicators:** Indicate the status of each installed drive.
- **Drive Bays:** 16 slots for installing 3.5" or 2.5" SATA HDDs/SSDs.

Rear Panel Components:

- **Power Ports:** Two ports for connecting AC power cords to redundant power supplies.
- **LAN Ports:** Multiple ports for connecting to your network via Ethernet cables, including 1GbE and 10GbE ports.
- **USB 3.0 Ports:** For connecting external USB devices.
- **COM Port:** Serial console port for management.

- **Expansion Slot:** For additional connectivity options like faster network cards.
- **Reset Button:** Resets the NAS to default network settings or reinstalls DSM.

5. Setup

5.1. Hardware Installation

1. **Install Drives:**

   Slide the drive trays out of the drive bays. Secure your 3.5" or 2.5" SATA HDDs/SSDs into the trays using the provided screws. Slide the trays back into the bays until they click into place. Ensure all drives are fully seated.

2. **Mounting (Optional):**

   If rack-mounting, install the rackmount rails into your server rack, then slide the NAS unit onto the rails and secure it with the provided screws.

3. **Connect Network Cables:**

   Connect one or more RJ-45 LAN cables from the NAS LAN ports to your network switch or router. Utilize the 10GbE port for higher bandwidth if available on your network infrastructure.

4. **Connect Power:**

   Connect both AC power cords to the power ports on the rear of the NAS and then to separate, reliable power outlets or a UPS for redundancy.

5.2. Initial Software Setup

1. **Power On:**

   Press the power button on the front panel. The Status LED will blink green during the boot process.

2. **Find Your Synology NAS:**

   Open a web browser on a computer connected to the same network and go tohttp://find.synology.com or http://diskstation:5000. This will launch the Web Assistant, which helps locate your NAS.

3. **Install DSM:**

   Follow the on-screen instructions to install DiskStation Manager (DSM), Synology's intuitive operating system. This process will format your installed drives, so ensure any existing data on them is backed up before proceeding.

4. **Create Administrator Account:**

   Set up your administrator account with a strong password and define basic network settings as prompted.

6. Operating the NAS

6.1. Basic Operations

- **Accessing DSM:**

  After initial setup, you can access the DSM desktop by entering the NAS's IP address or hostname followed by :5000 (e.g., http://192.168.1.100:5000) in your web browser and logging in with your administrator credentials.

- **File Station:**

  Utilize File Station within DSM to efficiently manage files and folders, upload, download, and securely share data with others.

- **User & Group Management:**

  Create and manage user accounts and groups, assigning appropriate access permissions to shared folders and

applications to control data access.

6.2. Advanced Features

- **Storage Manager:**

  Configure various RAID types (e.g., RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, SHR) for data redundancy and performance optimization. Create and manage storage pools and volumes according to your needs.

- **Package Center:**

  Install a wide array of applications and services from the Package Center to extend NAS functionality, such as media servers, comprehensive backup solutions, virtual machine managers, and surveillance tools.

- **Network Settings:**

  Configure network interfaces, set up port forwarding rules, enable VPN server/client, and utilize QuickConnect for easy remote access without complex router configurations.

7. Maintenance

- **Regular Data Backup:**

  Despite RAID configurations, regularly back up critical data to an external drive, another NAS, or a cloud service to ensure data integrity and disaster recovery capabilities.

- **DSM Updates:**

  Periodically check for and install DSM updates via Control Panel > Update & Restore. These updates provide security patches, bug fixes, and new features, crucial for system stability and protection.

- **Drive Health Check:**

  Monitor drive health proactively using Storage Manager's S.M.A.R.T. tests and IronWolf Health Management (if applicable). Replace any degrading or failing drives promptly to maintain data integrity and RAID array health.

- **Cleaning:**

  Keep the NAS unit clean and free of dust, especially around ventilation areas and fan intakes, using a soft, dry cloth or compressed air. Ensure proper airflow in the rack to prevent thermal issues.

8. Troubleshooting

Problem	Possible Cause	Solution
NAS not powering on.	Power cable(s) loose or faulty power supply unit.	Check all power cable connections. Verify power outlets are active. Test with one power supply at a time if possible.
Cannot find NAS on network.	Network cable disconnected, incorrect IP settings, or network configuration issue.	Verify all LAN cable connections. Ensure NAS and computer are on the same network segment. Use Synology Assistant or find.synology.com. Check router DHCP settings.
Drive LED blinking orange.	Drive degradation, failure, or volume crash.	Access Storage Manager in DSM to check drive status and volume health. Replace the faulty drive as soon as possible and repair the storage pool.
Slow performance.	High network traffic, failing drives, resource-intensive tasks, or insufficient RAM.	Check network utilization and switch performance. Review Resource Monitor in DSM for CPU, RAM, and disk I/O. Ensure drives are healthy. Consider upgrading RAM if consistently high usage.

Problem	Possible Cause	Solution
DSM login issues.	Incorrect credentials or forgotten password.	Verify username and password. If forgotten, use the reset button (mode 1 reset) to reset admin password and network settings without affecting data.

9. Specifications

Feature	Detail
Product Dimensions	11.5 x 11 x 5 inches
Item Weight	45.3 pounds
Manufacturer	Synology
ASIN	B0CTQMPJ9M
Item model number	RS2825RP+
Brand	Synology
Color	Black
Material	Metal
Compatible Devices	Server
Mounting Type	Tabletop (*Note: Primarily designed for rackmount installation*)
Processor	Intel Celeron J4125 2 GHz (*Note: This processor is typically found in smaller Synology models. For RS2825RP+, a more powerful CPU is expected. Using provided data.*)
Host Connectivity	Gigabit Ethernet (*Note: The image shows a 10GbE port, but description only mentions GigE. Using provided data.*)
Storage Controller	RAID 0, 1, JBOD (*Note: For a 16-bay unit, more RAID levels like 5, 6, 10, SHR are typical. Using provided data.*)

Note: Some specifications provided in the input data (e.g., processor, host connectivity, RAID levels) may be more typical of a smaller desktop NAS (like the DS224+) than a high-capacity rackmount unit (RS2825RP+). This manual uses the specifications as provided in the source data, alongside the model number and visual representation from the images.

10. Warranty and Support

Synology products typically come with a limited warranty. For specific warranty terms and conditions applicable to your RS2825RP+, please refer to the warranty card included with your product or visit the official Synology website's warranty section.

For technical support, software updates, and additional resources, please visit the Synology Support Center. You can find comprehensive documentation, FAQs, and contact options for assistance:

Synology Official Support Website

You can also find more information and resources on the Synology brand store on Amazon:

Synology Store on Amazon

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