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Synology DS925+

Synology DS925+ User Manual

Model: DS925+

PRODUCT OVERVIEW

The Synology DS925+ is a versatile 4-bay Network Attached Storage (NAS) solution designed to meet evolving storage demands. It supports up to nine drives when expanded with an expansion unit, features two M.2 NVMe slots for caching, and includes built-in 2.5GbE network connectivity. Powered by Synology DiskStation Manager (DSM), this device provides a comprehensive platform for data sharing, synchronization, backup, and surveillance.



Figure 1: Front view of the Synology DS925+ NAS, showing the four drive bays and front panel indicators.

Key Features

- Up to 522/565 MB/s sequential read/write throughput for stable data transfers.
- Dual 2.5GbE ports for fast network transfer speeds and increased redundancy.
- Built-in file and photo management, data protection, virtualization, and surveillance solutions.
- Support for M.2 NVMe SSDs for caching to accelerate workflows.
- Expandable storage capacity with an expansion unit.

SETUP GUIDE

1. Hardware Installation

Before powering on your DS925+, you will need to install the necessary storage drives. The DS925+ supports four 3.5-inch or 2.5-inch SATA drives and two M.2 2280 NVMe SSDs for caching.

1. **Install Drives:** Slide out the drive trays from the front of the NAS. Secure your 3.5-inch or 2.5-inch drives into the trays using the provided screws. Insert the loaded trays back into the drive bays until they click into place.
2. **Install M.2 NVMe SSDs (Optional):** Locate the M.2 slots on the bottom of the NAS. Insert the M.2 NVMe SSDs into the slots and secure them.
3. **Connect Network Cables:** Connect one or both 2.5GbE network ports on the rear of the DS925+ to your network router or switch using Ethernet cables.
4. **Connect Power Adapter:** Plug the power adapter into the DC IN 12V port on the rear of the NAS, then connect it to a power outlet.
5. **Power On:** Press the power button on the front panel to turn on the DS925+.

Fast transfer when you need it

2.5GbE ports provide fast transfer speeds out of the box

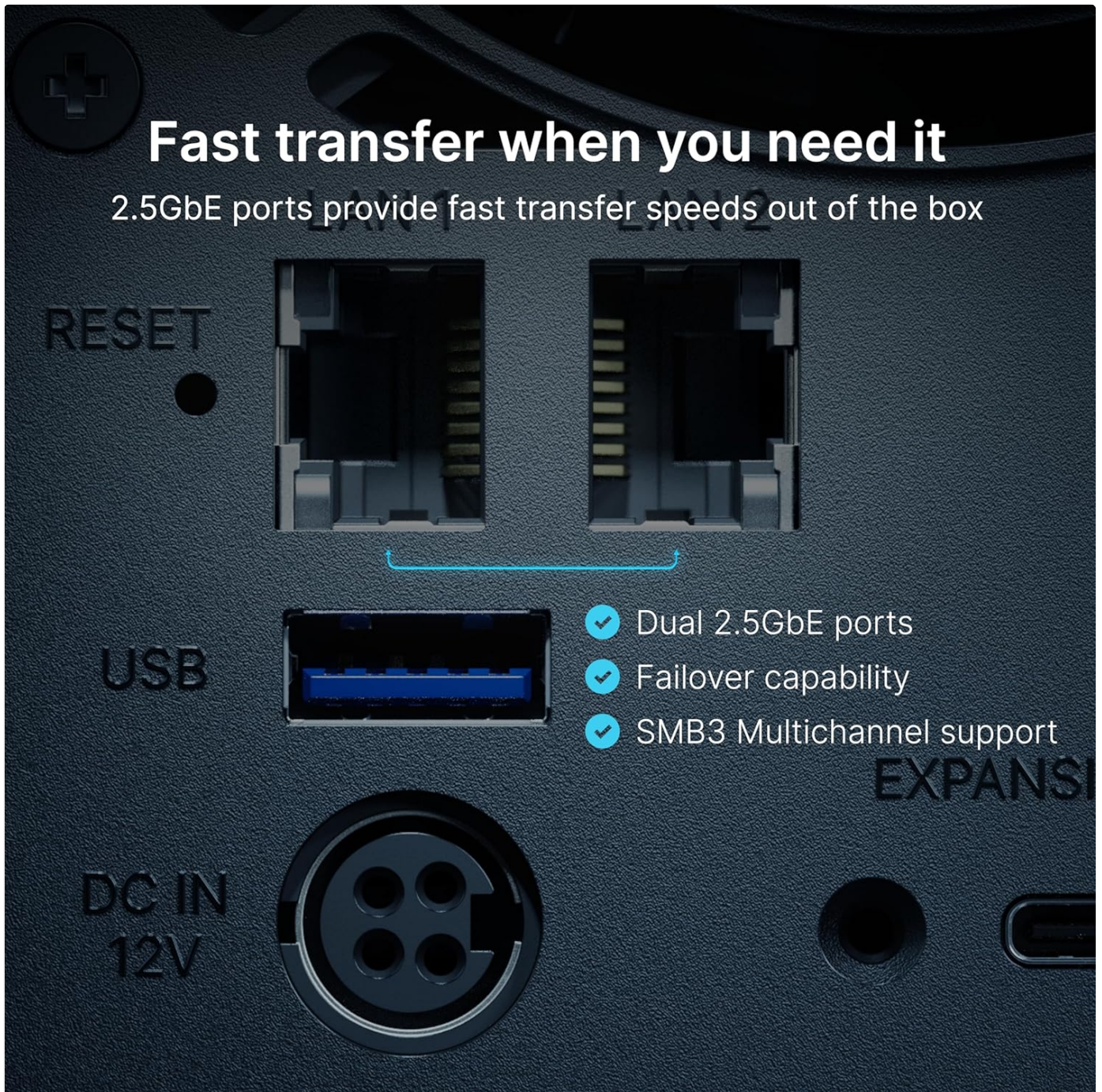


Figure 2: Rear panel of the DS925+, highlighting the dual 2.5GbE ports, USB port, and power input.

Storage you can grow with

Add capacity as your needs evolve

- ✓ Add an additional five bays
- ✓ Expand without going offline
- ✓ Expand volumes between units



Figure 3: Internal view illustrating the M.2 NVMe SSD slot for cache installation.

2. Software Initialization (Synology DiskStation Manager - DSM)

Once the hardware is set up and powered on, you will need to install and configure Synology DiskStation Manager (DSM).

1. **Find Your NAS:** Open a web browser on a computer connected to the same network as your DS925+. Go to <http://find.synology.com> or use Synology Assistant desktop utility to locate your NAS.
2. **Install DSM:** Follow the on-screen instructions to install DSM. This process will download and install the latest version of the operating system onto your NAS.
3. **Create Administrator Account:** During the installation, you will be prompted to create an administrator account. Choose a strong password.
4. **Create Storage Pool and Volume:** After DSM is installed, log in. Navigate to **Storage Manager** to create a storage pool and then a volume. This is where your data will be stored. Consider RAID configurations for data redundancy.

Important Note on Drive Compatibility: The Synology DS925+ is designed to work optimally with drives listed on Synology's official compatibility list. Using drives not on this list may result in functionality limitations or prevent

the system from operating correctly.

OPERATING YOUR DS925+

The Synology DS925+ offers a wide range of functionalities through its DiskStation Manager (DSM) operating system.

File Management and Sharing

- **File Station:** Access and manage files stored on your NAS through a web-based interface.
- **Synology Drive:** Create a personal cloud for file synchronization and sharing across multiple devices.
- **Shared Folders:** Set up shared folders with specific user permissions for collaborative work.

Data Backup and Protection

- **Hyper Backup:** Comprehensive backup solution for backing up data from your NAS to various destinations, including external drives, remote Synology NAS, and cloud services.
- **Snapshot Replication:** Create point-in-time copies of shared folders and iSCSI LUNs to protect against accidental deletion, data corruption, and ransomware attacks.
- **Synology Photos:** Organize and back up your photo and video collections with smart features.



Figure 4: An example of the Synology DiskStation Manager (DSM) desktop interface, showing various applications for data management and services.

Surveillance Station

Transform your DS925+ into a powerful network video recorder (NVR) with Surveillance Station. It supports a wide range of IP cameras and offers features like live view, recording, playback, and intelligent analytics.

Storage Expansion

The DS925+ can be expanded with a Synology DX517 expansion unit to add five more drive bays, increasing the total capacity to nine drives. This allows for flexible storage growth as your needs evolve.



Figure 5: Two Synology NAS units, illustrating how an expansion unit can be connected to increase storage capacity.

MAINTENANCE

- **DSM Updates:** Regularly check for and install DSM updates via **Control Panel > Update & Restore** to ensure system stability, security, and access to new features.
- **Drive Health:** Monitor the health of your installed drives in **Storage Manager > HDD/SSD**. Replace drives proactively if SMART errors or warnings appear.
- **Data Scrubbing:** For Btrfs file systems, perform data scrubbing periodically (e.g., monthly or quarterly) to ensure data integrity and consistency.
- **System Logs:** Review system logs in **Log Center** for any unusual activities or errors.
- **Physical Cleaning:** Keep the NAS unit clean and free of dust. Gently wipe the exterior with a soft, dry cloth. Ensure

ventilation areas are not obstructed.

TROUBLESHOOTING

Common Issues and Solutions

- **NAS Not Accessible on Network:**
 - Ensure Ethernet cables are securely connected to both the NAS and your router/switch.
 - Verify that the network indicator lights on the NAS and your network device are active.
 - Restart your router and the NAS.
 - Use Synology Assistant to check if the NAS is detected on the network.
- **Drive Status LED Blinking Orange:**
 - This typically indicates a drive warning or failure. Check **Storage Manager > HDD/SSD** in DSM for detailed information.
 - If a drive has failed, replace it as soon as possible to maintain data redundancy (if using RAID).
- **System Status LED Blinking Orange:**
 - This can indicate a system warning, such as a degraded storage pool, fan failure, or high temperature. Check **DSM > Notification Center** for alerts.
- **Slow Performance:**
 - Check network cable connections and ensure you are using 2.5GbE compatible network infrastructure if utilizing the dual ports.
 - Monitor resource utilization (CPU, RAM, Disk I/O) in **Resource Monitor** within DSM.
 - Consider adding M.2 NVMe SSDs for read/write cache to improve performance for frequently accessed data.

For more detailed troubleshooting or issues not covered here, please refer to the official Synology Knowledge Base or contact Synology Technical Support.

SPECIFICATIONS

Feature	Detail
Brand	Synology
Model Number	DS925+
Drive Bays	4 (3.5"/2.5" SATA HDD/SSD)
M.2 SSD Slots	2 (NVMe)
Network Ports	2 x 2.5GbE RJ-45
USB Ports	USB 3.2 Gen 1
Dimensions (HxWxD)	166 mm x 199 mm x 223 mm (6.54 x 7.83 x 8.78 inches)
Weight	2.26 kg (4.98 pounds)
Color	Black

Material	Plastic, Metal
Operating System	Synology DiskStation Manager (DSM)

WARRANTY AND SUPPORT

Warranty Information

The Synology DS925+ is backed by Synology's 3-year limited hardware warranty. This warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, please refer to the official Synology warranty policy available on their website.

Technical Support

For technical assistance, product inquiries, or warranty claims, please visit the official Synology support website. The website provides access to a comprehensive knowledge base, FAQs, and contact information for their support team.