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Synology DS220+

Synology DiskStation DS220+ User Manual

Model: DS220+

1. Introduction

The Synology DiskStation DS220+ is a compact and powerful Network Attached Storage (NAS) solution designed for various server roles, including data backup, centralized file storage, email servers, and domain controllers. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DS220+.



Figure 1: Front view of the Synology DiskStation DS220+ NAS server, showing the status indicators and front USB port.

2. Setup

Before powering on your Synology DS220+, you will need to install the hard drives and any memory upgrades. These components are included separately and require physical installation into the NAS chassis.

2.1 Hardware Installation

1. **Install Hard Drives:** Carefully slide the hard drive trays out of the DS220+. Mount your 3.5-inch or 2.5-inch SATA hard drives (e.g., 8TB HDDs) into the trays using the provided screws. Slide the trays back into the NAS until they click into place.
2. **Install Memory (Optional):** If you have memory upgrades, refer to the specific instructions for accessing the memory slots and installing the SO-DIMMs.
3. **Connect Network Cables:** Connect one or both RJ-45 1GbE LAN ports to your network router or switch using Ethernet cables. The DS220+ supports Link Aggregation/Failover for enhanced performance and redundancy.
4. **Connect Power:** Connect the power adapter to the DS220+ and then plug it into a power outlet.



Figure 2: Rear view of the Synology DiskStation DS220+ NAS server, highlighting the LAN ports, USB 3.2 ports, and power input.

2.2 Initial Software Setup (DSM)

1. **Power On:** Press the power button on the front of the DS220+.
2. **Find Your NAS:** From a computer connected to the same network, open a web browser and go to find.synology.com or use the Synology Assistant utility to locate your device.
3. **Install DSM:** Follow the on-screen prompts to install the Synology DiskStation Manager (DSM) operating system. This process will format your hard drives, so ensure they are empty or backed up.
4. **Create Administrator Account:** Set up your administrator account and password.
5. **Configure Storage Pool:** After DSM installation, configure your storage pool and volumes according to your needs (e.g., RAID type, file system).

3. Operating the DS220+

The Synology DS220+ runs on the intuitive DiskStation Manager (DSM) operating system, providing a wide range of features for data management, security, and multimedia. Access DSM via a web browser using the IP address of your NAS or its QuickConnect ID.

Key Features and Applications:

- **File Server/Management:** Organize and share files across your network. Use File Station for web-based file

management.

- **Desktop Backup:** Utilize Synology Drive Client or other backup solutions to back up data from your computers to the NAS.
- **Hyper Backup:** Comprehensive multi-version backup solution to various destinations, including local, remote, and cloud storage.
- **Snapshot Replication:** Create point-in-time copies of shared folders and iSCSI LUNs for quick data recovery.
- **Security Advisor:** Scans your DSM settings and provides recommendations to enhance security.
- **AES 256-bit Encryption:** Encrypt shared folders to protect sensitive data.
- **2 Factor Authentication:** Add an extra layer of security to your DSM login.
- **4K Multimedia Server:** Stream 4K content to compatible devices using applications like Video Station or Plex Media Server.
- **Synology Drive:** Create a personal cloud for file synchronization and sharing across devices.

4. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Synology DS220+ and the safety of your data.

- **Regular Backups:** Implement a robust backup strategy using Hyper Backup to external drives, another Synology NAS, or cloud services.
- **DSM Updates:** Keep your DSM operating system updated to the latest version to benefit from new features, security patches, and bug fixes. Navigate to *Control Panel > Update & Restore* in DSM.
- **Check Drive Health:** Periodically check the health of your installed hard drives via *Storage Manager > HDD/SSD* in DSM. Replace drives showing signs of degradation promptly.
- **System Health Monitoring:** Monitor system resources (CPU, RAM, network) and temperature through the *Resource Monitor* in DSM.
- **Cleanliness:** Ensure the NAS is placed in a well-ventilated area. Periodically clean dust from the vents and fan to prevent overheating.

5. Troubleshooting

This section covers common issues you might encounter with your Synology DS220+.

Common Issues and Solutions:

- **NAS Not Accessible on Network:**
  - Ensure network cables are securely connected to both the NAS and your router/switch.
  - Check the network indicator lights on the front of the NAS.
  - Verify your computer is on the same network as the NAS.
  - Restart your router and the NAS.
- **Drive Status Light is Amber/Red:**
  - This indicates a drive issue. Check *Storage Manager > HDD/SSD* in DSM for details.
  - If a drive has failed, replace it immediately and repair the storage pool.
- **Power LED Blinking:**

- This often indicates the NAS is booting up, shutting down, or in a degraded state. Wait for it to stabilize.
- If it continues to blink indefinitely, consult Synology's official support resources.

- **Forgot DSM Password:**
  - Use the reset button on the back of the NAS (pinhole) to reset the administrator password and network settings without affecting data. Refer to Synology's official guide for the exact procedure.

6. Specifications

Synology DiskStation DS220+ Key Specifications

Feature	Detail
Model Name	DiskStation DS220+
Processor	Intel Celeron J4025 Dual-Core 2.0GHz (up to 2.9GHz Burst)
Memory	6GB DDR4 PC4-21300 2666MHz SO-DIMMs
Storage Capacity (Included)	8TB (2 x 4TB) 6Gb/s SATA 3.5 Inch HDDs
Drive Bays	2
Ports	2 x RJ-45 1GbE LAN (with Link Aggregation / Failover support), 2 x USB 3.2 Port
Operating System	Synology DSM
Form Factor	NAS Tower Server
Item Weight	7 pounds
Package Dimensions	22 x 17 x 8 inches

7. Warranty and Support

For detailed warranty information regarding your Synology DiskStation DS220+, please refer to the warranty card included with your product or visit the official Synology website. Warranty terms and conditions may vary by region.

For technical support, software updates, and additional resources, please visit the official Synology Support Center:

Synology Support Center

Please have your product model and serial number ready when contacting support.

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