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Synology DS220+

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Model: DS220+

1. INTRODUCTION AND OVERVIEW

The Synology DiskStation DS220+ is a compact network-attached storage solution designed to streamline your data and multimedia management. It offers smooth data sharing, efficient video streaming, and robust photo indexing capabilities. This device also provides well-rounded data protection and recovery options, including file or folder level data restoration for fast and flexible recovery. The DS220+ is an ideal choice for home users and small businesses seeking a reliable and high-performance storage solution.

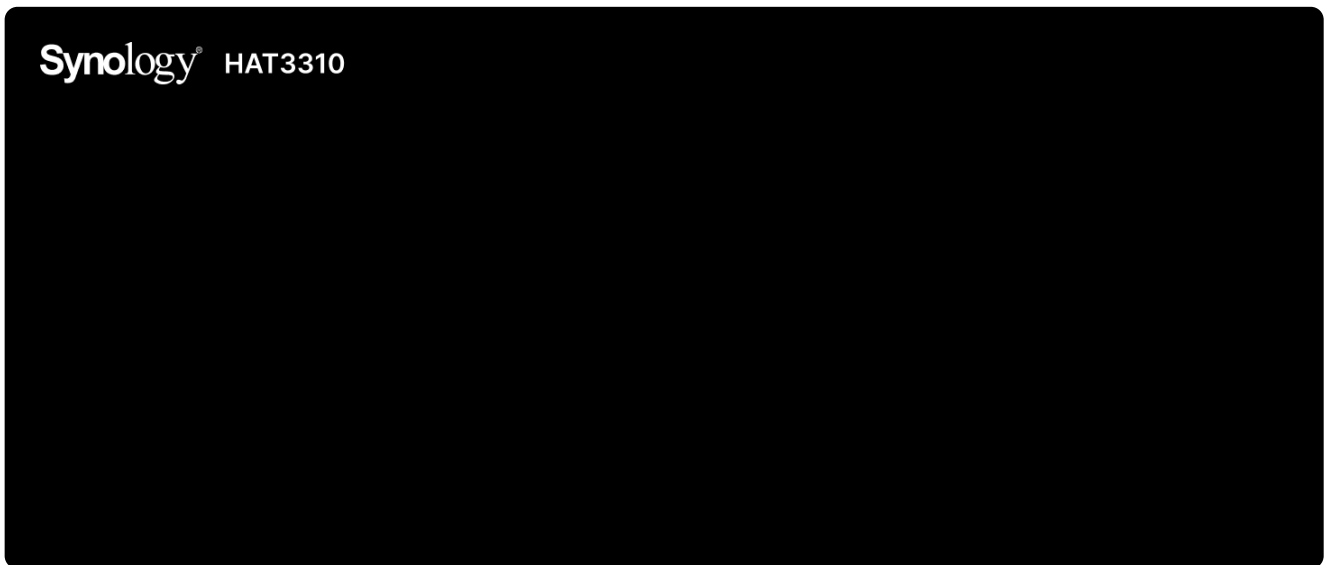


Figure 1: Synology DiskStation DS220+ - Compact and high-performance NAS device.

2. WHAT'S IN THE BOX

Upon unboxing your Synology DiskStation DS220+, you should find the following components:

- Main Unit X 1
- Accessory Pack X 1
- AC Power Adapter X 1
- AC Power Cord X 1
- RJ-45 LAN Cable X 2



Figure 2: The Synology DiskStation DS220+ main unit.

3. SETUP

3.1 Hardware Installation

Before powering on your DS220+, you will need to install the hard drives. The DS220+ supports two 3.5-inch or 2.5-inch SATA HDDs/SSDs. Ensure you use compatible drives for optimal performance and reliability.

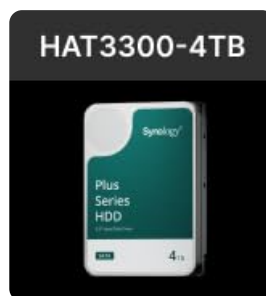


Figure 3: Inserting a hard drive into the drive bay.

The DS220+ comes with 2GB DDR4 memory and is expandable up to 6GB. If you plan to upgrade the memory, install the additional RAM module before proceeding with the initial setup.



Figure 4: Synology DiskStation DS220+ integrated into a workspace.

After installing the drives, connect the AC power adapter and power cord to the device. Then, connect one or both RJ-45 LAN cables from the DS220+ to your network router or switch.

3.2 Software Installation (DSM)

Once the hardware is set up, power on the DS220+. Use a web browser on a computer connected to the same network to access the Synology Web Assistant. The Web Assistant will guide you through the installation of DiskStation Manager (DSM), Synology's intuitive operating system. Follow the on-screen prompts to complete the DSM installation and create your administrator account.

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Video 1: Detailed Installation Guide for Synology 2 bay NAS. This video provides a step-by-step walkthrough of the physical installation process for the Synology 2-bay NAS.

4. OPERATING

4.1 File Management and Sharing

DSM provides a user-friendly interface for managing your files. You can easily upload, download, and organize your data through the File Station application. For sharing, you can generate secure links with customizable validity periods and password protection. These links can be shared directly or via email, allowing seamless collaboration with others.

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Video 2: How to Add and Share Files on Your Synology NAS. This video demonstrates the process of uploading files to your Synology NAS and sharing them securely using generated links.

4.2 Multimedia Streaming and Indexing

The DS220+ is optimized for multimedia management. You can stream videos to various devices and utilize its photo indexing capabilities to organize your image collection efficiently. The device's performance ensures a smooth experience for all your media needs.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Synology NAS. Ensure that DSM and all installed packages are kept up-to-date by regularly checking for and applying updates through the Package Center and Control Panel. Monitor the health of your hard drives through the Storage Manager. The DS220+ supports RAID 1 disk mirroring, which provides data protection against single drive failure. In case of a drive issue, the system will alert you, allowing for timely replacement and data integrity maintenance.



Figure 5: Synology Plus Series HDD, recommended for optimal performance.

6. TROUBLESHOOTING

If you encounter any issues with your Synology DS220+, begin by checking all physical connections, including power and network cables. A simple restart of the device can often resolve minor glitches.

For more complex issues, refer to the comprehensive Synology Knowledge Center available online. You can also find helpful video tutorials on the official Synology YouTube channel, which cover a wide range of topics from setup to advanced configurations.

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Video 3: Synology 2-Bay NAS DiskStation DS220+ Review. This video provides an overview and review of the Synology DS220+ NAS.

7. SPECIFICATIONS

Feature	Detail
Model Number	DS220+
Hard Drive Support	2 x 3.5" / 2.5" SATA HDD/SSD
Memory	2 GB DDR4 (expandable up to 6 GB)
Processor	Intel dual-core processor with AES-NI hardware encryption engine
LAN Ports	Dual 1GbE LAN ports (supports network failover and Link Aggregation)
USB Ports	USB 3.0 ports
Dimensions (LxWxH)	6.5 x 4.25 x 9.14 inches
Item Weight	2.86 pounds
Hardware Platform	PC, Linux, Mac
Color	Black
Material	Metal
Voltage	240 Volts

8. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your product or visit the official Synology website. Synology provides comprehensive support resources to assist users with any questions or issues.

You can access the official User Guide in PDF format for more in-depth information and troubleshooting steps: [Synology DS220+ User Guide \(PDF\)](#).

Additional support can be found on the Synology Knowledge Center and their official YouTube channel, offering articles, FAQs, and video tutorials.