Synology DS1522+

Synology 5-bay DiskStation DS1522+ Instruction Manual

Model: DS1522+

Setup   **Operating**   **Maintenance**   **Troubleshooting**   **Specifications**   **Warranty**   **Support**

INTRODUCTION

This manual provides essential instructions for setting up, operating, maintaining, and troubleshooting your Synology 5-bay DiskStation DS1522+. The DS1522+ is a versatile Network Attached Storage (NAS) solution designed for efficient data management, protection, and sharing in home and office environments. It offers high sequential read/write throughput and supports various built-in solutions for file management, virtualization, and surveillance.

WHAT'S IN THE BOX

Upon unboxing your Synology DS1522+, verify that all the following components are included:

- 1 x DS1522+ main unit
- 1 x Quick Installation Guide
- 1 x Accessory pack (containing hard drive screws and tray keys)
- 1 x AC power adapter
- 1 x AC power cord
- 2 x RJ-45 LAN cables

Back up your data, wherever it is

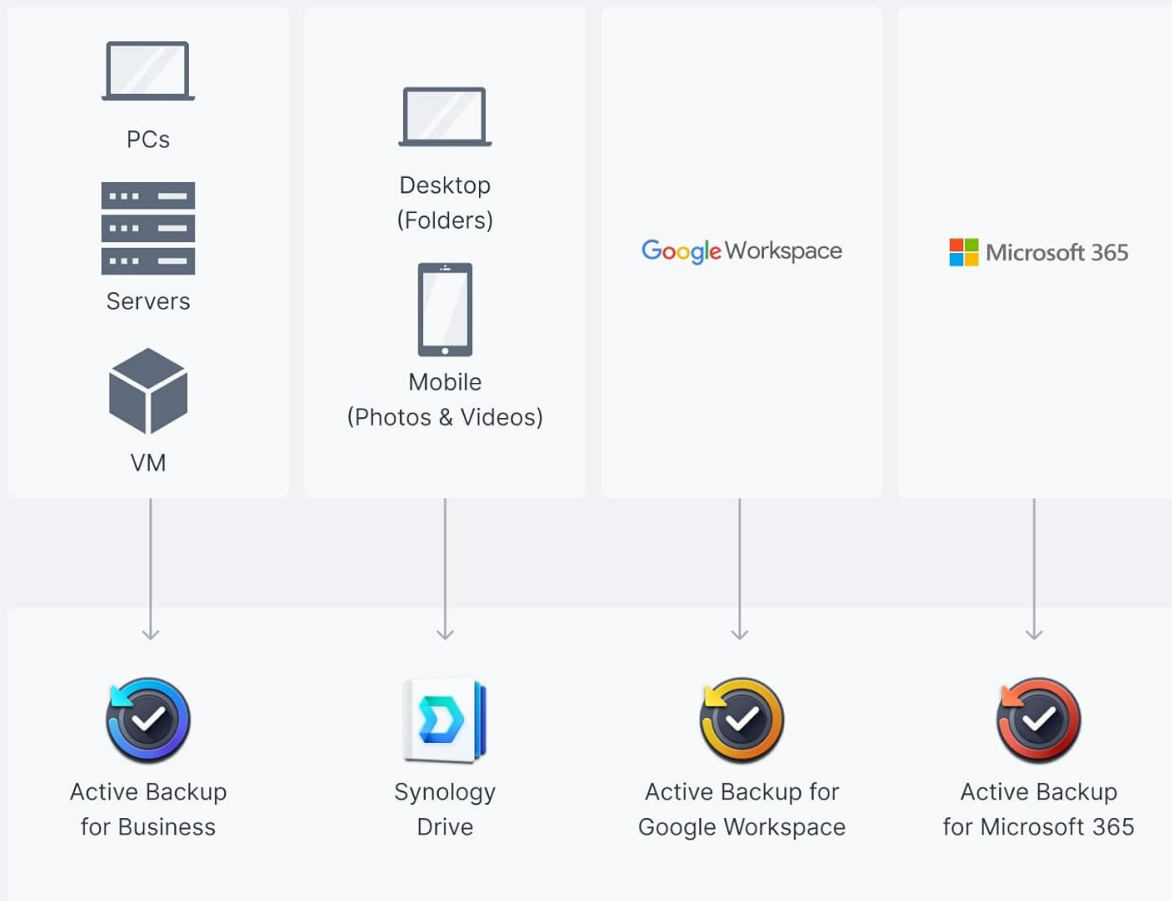Protect scattered data across PCs, VMs, servers, and SaaS

PCs	Desktop (Folders)	Google Workspace	Microsoft 365
Servers			
VM	Mobile (Photos & Videos)		
↓	↓	↓	↓
Active Backup for Business	Synology Drive	Active Backup for Google Workspace	Active Backup for Microsoft 365

Image: Contents of the Synology DS1522+ retail box, including the main unit, power adapter, cables, and quick installation guide.

SETUP

1. Hardware Installation

Before powering on your DS1522+, you must install the hard drives and any optional components like memory or a 10GbE network card.

Drive Installation

The DS1522+ supports 3.5-inch and 2.5-inch SATA HDDs/SSDs. For 3.5-inch drives, no screws are typically needed as they snap into the drive trays. For 2.5-inch drives, use the provided screws in the accessory pack to secure them to the trays.

Image: Front view of the Synology DS1522+ showing the five accessible drive bays.

To install a drive:

1. Pull out a drive tray from the main unit.
2. Remove the fastening panels from the sides of the drive tray.
3. Place your 3.5-inch or 2.5-inch drive into the tray.
4. Secure the drive using the fastening panels (for 3.5-inch) or screws (for 2.5-inch).
5. Slide the loaded drive tray back into the drive bay until it clicks into place.
6. Optionally, use the provided keys to lock the drive trays to prevent accidental removal.

Memory and Network Card Installation

The DS1522+ comes with 8GB DDR4 memory and can be upgraded. It also supports an optional 10GbE network upgrade module for faster connectivity.

Image: The Synology E10G22-T1-Mini Network Upgrade Module, an optional accessory for 10GbE connectivity.

Consult the Quick Installation Guide for detailed steps on installing memory modules and the 10GbE network card.

Network and Power Connection

Connect the DS1522+ to your network and power source:

1. Connect one end of the RJ-45 LAN cable to a LAN port on the DS1522+ and the other end to your router or switch. The DS1522+ features four 1GbE ports.
2. Connect the AC power adapter to the power port on the NAS and then plug the AC power cord into a power outlet.
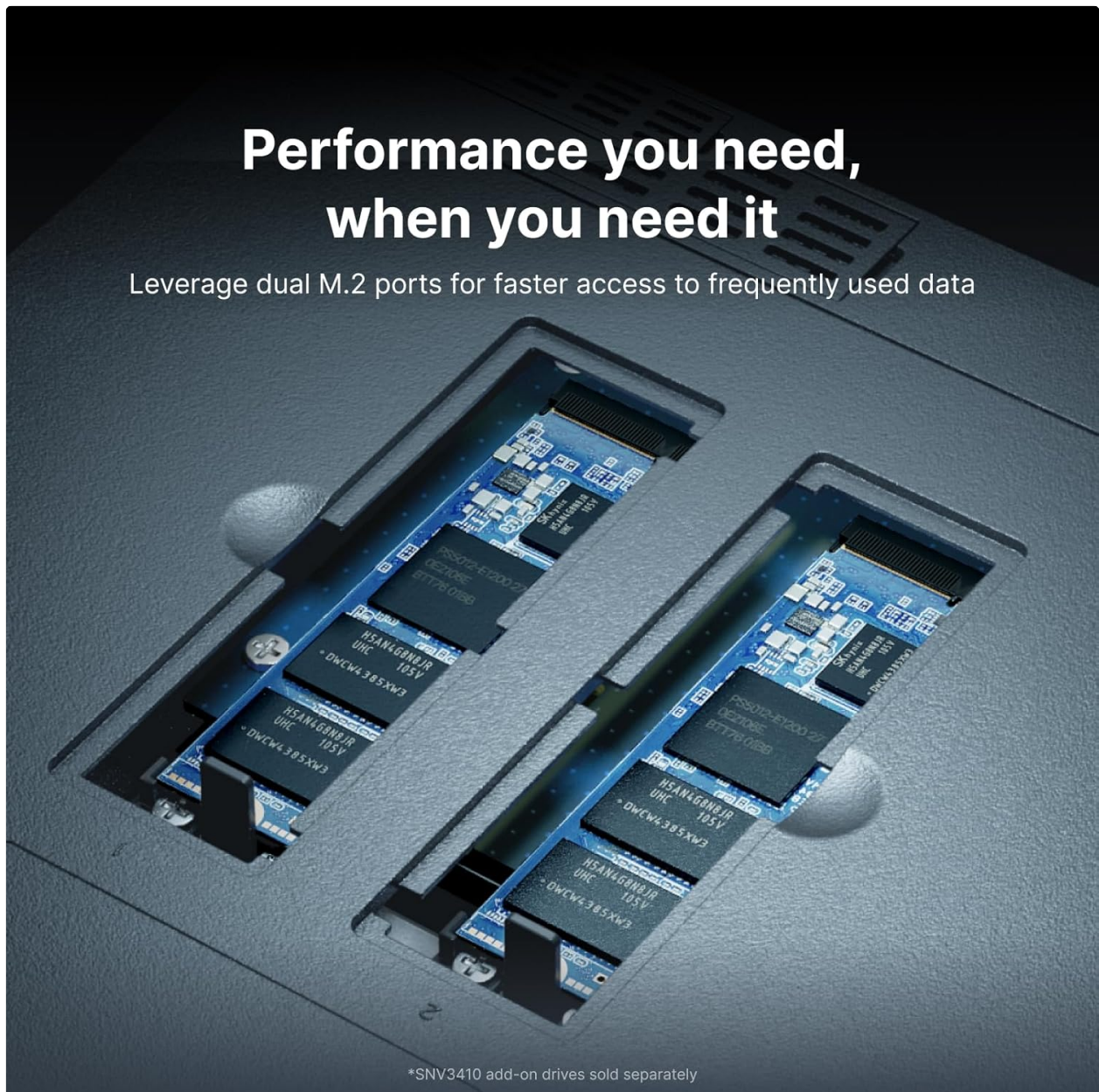

Image: Rear view of the Synology DS1522+ showing the power port, eSATA ports, USB ports, and four 1GbE LAN ports.

2. Software Setup (DSM)

After hardware installation, power on your DS1522+ by pressing the power button. You will then need to install Synology DiskStation Manager (DSM), the operating system for your NAS.
You can find a detailed video guide on how to set up your Synology NAS and install DSM:

Video: Official Synology NAS setup guide, demonstrating the process of installing drives, connecting the NAS, and installing DSM.

To access your NAS and install DSM:

1. Open a web browser on a computer connected to the same network as your NAS.
2. Go to http://find.synology.com.
3. The Web Assistant will search for your DS1522+. Once found, click 'Set up'.
4. Follow the on-screen instructions to install the latest version of DSM. This process will format your hard drives, so ensure you have backed up any important data.
5. Create your administrator account by entering a server name, username, and password.

3. QuickConnect Setup

QuickConnect allows you to access your Synology NAS from anywhere over the Internet without complex network configurations or port forwarding.
A video guide is available for setting up QuickConnect:

Video: Official Synology guide on how to add and share files on your Synology NAS, which includes enabling QuickConnect ID.

To enable QuickConnect:

1. Log in to DSM.
2. Go to **Control Panel** > **QuickConnect**.
3. Check the 'Enable QuickConnect' box.
4. Log in with your Synology Account or create a new one.
5. Enter your preferred QuickConnect ID and click 'Apply'.

OPERATING YOUR DS1522+

The DS1522+ offers robust features for file management, data protection, and multimedia. Its built-in solutions allow for efficient file operations and secure data handling.

File and Photo Management

Leverage built-in file and photo management tools to organize, back up, and share your files efficiently. The system supports up to 736/796 MB/s sequential read/write throughput for quick file operations.
For detailed instructions on adding and sharing files, refer to the following video:

Video: Official Synology guide on how to add and share files on your Synology NAS, demonstrating file upload, sharing links, and download processes.

Data Protection and Virtualization

The DS1522+ supports various data protection features, including backup solutions and virtualization capabilities. You can protect scattered data across PCs, VMs, servers, and SaaS platforms.

Image: Icon representing Synology Active Backup for Business, one of the data protection solutions.

Surveillance Solutions

Build your own surveillance system by managing cameras in a centralized dashboard and storing recordings locally for as long as needed.
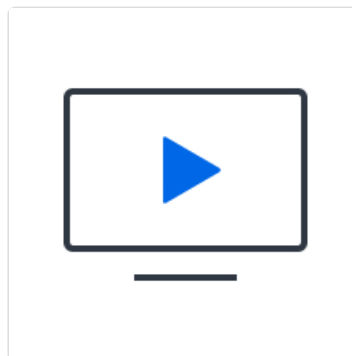

Image: Icon representing Synology Surveillance Station, a built-in surveillance solution.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Synology DS1522+.

Software Updates

Keep your DSM software updated to benefit from the latest features, security patches, and performance improvements. You can configure automatic updates within DSM settings.

Drive Health Monitoring

Regularly check the health of your installed hard drives through DSM's Storage Manager. This helps in proactive replacement of failing drives to prevent data loss.

Physical Cleaning

Ensure proper airflow by keeping the NAS unit clean and free from dust. Periodically clean the exterior and fan vents using a soft, dry cloth.

TROUBLESHOOTING

If you encounter issues with your DS1522+, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter and cord are securely connected to the NAS and a working power outlet.
- **Network Connectivity:** Verify that the RJ-45 LAN cables are properly connected to both the NAS and your network device (router/switch). Check network indicator lights on the NAS.
- **DSM Access:** If you cannot access DSM via http://find.synology.com, try restarting your NAS and computer.

Ensure both are on the same network.

- **Drive Issues:** Check the drive indicator lights on the front panel. A blinking or amber light may indicate a drive issue. Consult DSM's Storage Manager for detailed status.
- **System Slowdown:** If the system is slow, check resource monitor in DSM for high CPU or memory usage. Consider upgrading RAM if consistently high.

For more advanced troubleshooting, refer to the Synology Knowledge Base or contact Synology Support.

SPECIFICATIONS

Key technical specifications for the Synology DS1522+:

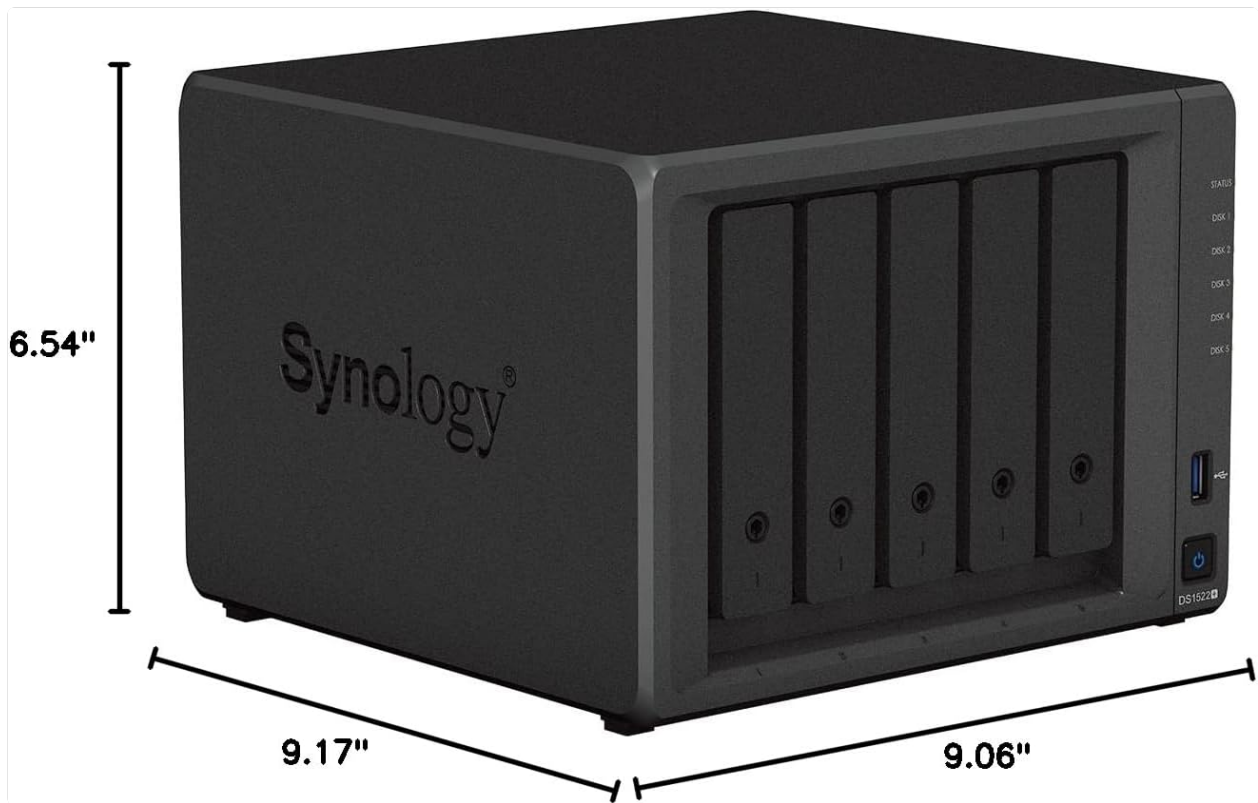| Feature	Specification
Brand	Synology
Model Number	DS1522+
Drive Bays	5
Memory	8GB DDR4 (expandable)
Network Ports	4 x 1GbE RJ-45 (with optional 10GbE connectivity)
USB Ports	2 x USB 3.2 Gen 1
eSATA Ports	2
Sequential Read/Write	Up to 736/796 MB/s
Dimensions (LxWxH)	12 x 12 x 11.25 inches (Product Dimensions)
Weight	9.24 pounds
Compatible Devices	Android, Desktop, Laptop, Server, iPhone

Image: Dimensions of the Synology DS1522+ unit.

WARRANTY

The Synology DS1522+ comes with a **3-year warranty**. For specific terms and conditions, please refer to the warranty information provided in your Quick Installation Guide or on the official Synology website.

SUPPORT

For further assistance, technical support, or to access the latest documentation and software updates, please visit the official Synology support resources:

- **Synology Support Center:** https://www.synology.com/support
- **Synology Knowledge Base:** Access articles and FAQs for common issues.
- **Synology Community Forums:** Engage with other users and experts.