


Synology DiskStation DS224+ File Management Hub



Synology DiskStation DS224+ File Management Hub Owner's Manual

[Home](#) » [Synology](#) » Synology DiskStation DS224+ File Management Hub Owner's Manual 

Contents

- [1 Synology DiskStation DS224+ File Management Hub](#)
- [2 Introduction](#)
- [3 Highlights](#)
- [4 Access Your Data Anytime, Anywhere](#)
- [5 Flexible Data Protection Options](#)
- [6 Hardware Overview](#)
- [7 Technical Specifications](#)
- [8 General DSM Specifications](#)
- [9 Packages and Applications](#)
- [10 Environment and Packaging](#)
- [11 Documents / Resources](#)
 - [11.1 References](#)



Synology DiskStation DS224+ File Management Hub



Introduction

File Management Hub for Compact Teams and Organizations

The Synology DiskStation DS224+ is a compact 2-bay NAS solution designed to bring centralized data management to small organizations and teams. Synology DiskStation Manager (DSM) supports creating a private cloud to make working together better for everyone, with tools to manage, share, and protect files and photos, backup devices and data, and manage surveillance recordings.

Highlights

Centralized Data Storage

- Consolidate all your data for complete data ownership and multi-platform access¹

Sharing and Syncing Across Systems

- Access, share, and sync data across different systems and devices using intuitive controls

Powerful Backup and Restoration

- Back up and restore critical devices and data using a host of intuitive backup tools

Built-in Data Management Tools

- Leverage built-in file and photo management, data protection, and video surveillance solutions

Access Your Data Anytime, Anywhere

Securely and conveniently store any type of data with the aid of our comprehensive and intuitive access and management tools.

- Access your storage securely from anywhere without configuring complex port forwarding rules by enabling Synology QuickConnect
- Browse and manage your files from any browser or through file managers including Windows File Explorer and Finder on Mac
- Keep your photos and videos organized using Synology Photos' smart sorting functions
- Container Manager support provides access to a wide range of media management applications available as containers
- Easily incorporate into existing network infrastructure as edge storage thanks to Windows AD, LDAP, and SSO integration

Share, Sync, and Work Together

Whether sharing photos and videos or working on spreadsheets and pitches with people around the globe, Synology solutions make sharing, collaboration, and synchronization a reality.

- Build a private data cloud for easy file management and sharing across all desktop and mobile devices, and keep data on your Synology systems in sync with Synology Drive
- Synchronize data from and to popular cloud storage platforms with Synology Cloud Sync
- Securely share photos and videos with family, friends, or business clients using Synology Photos
- Keep multiple deployments in sync by leveraging the power of C2 cloud servers with Synology Hybrid Share.² Reduce local storage and bandwidth usage by downloading files from the cloud only when needed

Flexible Data Protection Options

Synology DSM comes with a host of backup solutions for different scenarios available at no extra cost.

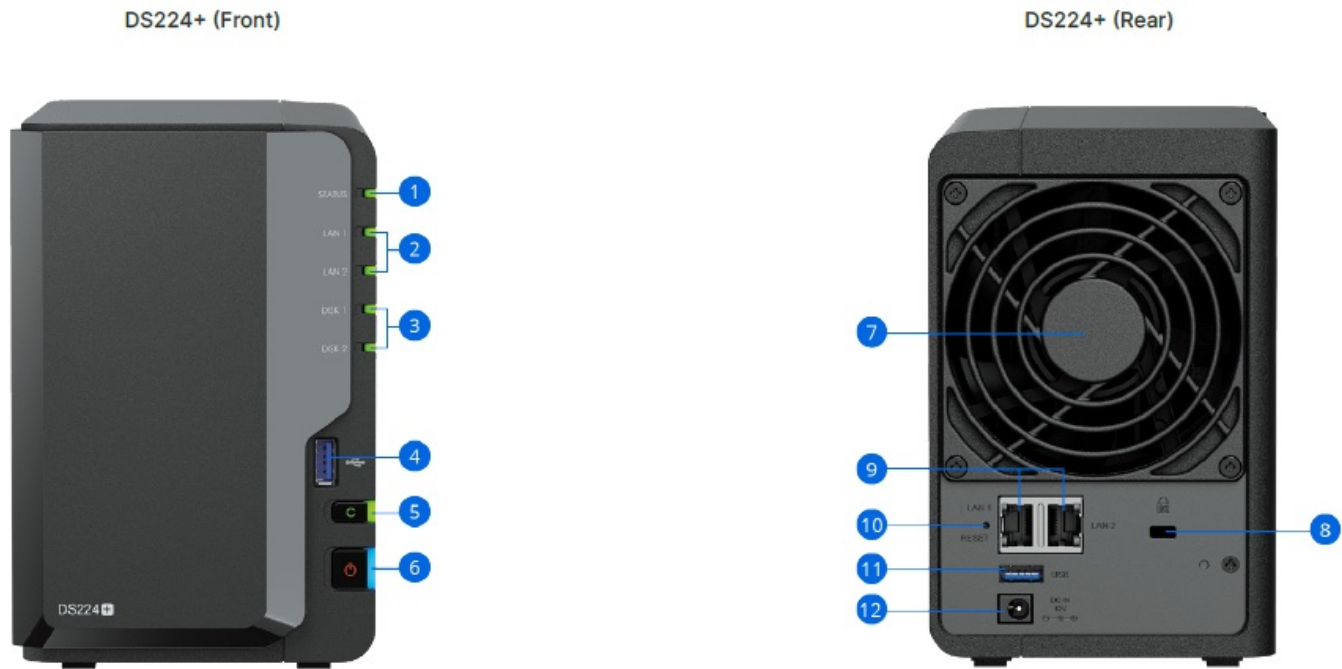
- Centrally set up and manage backups of Windows, macOS, and Linux endpoints, VMware, Hyper-V, Nutanix Files, NetApp ONTAP, Synology DSM, Microsoft 365, and Google Workspace with Active Backup
- Leverage real-time and scheduled backups of your PC folders with Synology Drive to protect data against ransomware attacks or accidental deletion
- Safeguard photos and videos taken on mobile devices with automatic backups to Synology Drive or Synology Photos
- Efficiently back up your entire Synology system or individual folders to a wide variety of destinations using Hyper Backup
- Store backups to C2 Storage,² a dedicated and secure cloud destination powered by Synology C2
- Create point-in-time copies of shared folders that can be replicated to other Synology systems and rapidly restored with Snapshot Replication
- Comply with data retention policies and safeguard files against unauthorized changes with immutable snapshots and WriteOnce immutable storage folders

Private Video Surveillance

Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).

- 8,300+ supported camera models
- ONVIF support for a broader selection of cameras
- Private, subscription-free storage of recordings
- Access through web browsers, desktop clients, and mobile apps
- Event-based rules to trigger specific actions
- Email, SMS, and push notification options
- Simultaneous cloud recording with C2 Surveillance for extra data protection and convenient sharing3

Hardware Overview



1	Status Indicator	2	LAN Indicators	3	Drive Status Indicators	4	USB 3.2 Gen 1 Port
5	Copy Button	6	Power Button	7	Fan	8	Kensington Security Slot
9	1GbE RJ-45 Ports	10	Reset Button	11	USB 3.2 Gen 1 Port	12	Power Port

Technical Specifications

Hardware

CPU	Intel® Celeron® J4125
Memory	2 GB DDR4 (expandable up to 6 GB) ⁴
Compatible drive types	<ul style="list-style-type: none"> • 2 x 3.5" or 2.5" SATA SSD/HDD (drives not included) • Synology only guarantees full functionality, reliability, and performance for Synology drives listed on the compatibility list. The use of non-validated components may limit certain functionalities and result in data loss and system instability⁵
Hot-swappable drives	Yes
External ports	2 x USB 3.2 Gen 1 ports
Form factor	Desktop
Size (HxWxD)	165 x 108 x 232.2 mm
Weight	1.3 kg
LAN ports	2 x 1GbE RJ-45
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fans	1 x (92 x 92 x 25 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60 Hz, single phase
Operating environment	<ul style="list-style-type: none"> • Temperature: 0°C to 40°C (32°F to 104°F) • Relative humidity: 8% to 80% RH
Storage environment	<ul style="list-style-type: none"> • Temperature: -20°C to 60°C (-5°F to 140°F) • Relative humidity: 5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

General DSM Specifications

Networking protocols	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, and VPN (PPTP, OpenVPN™, L2TP)
File systems	<ul style="list-style-type: none"> • Internal: Btrfs, ext4 • External: Btrfs, ext4, ext3, FAT32, NTFS, HFS+, exFAT
Supported RAID types	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1
Storage management	<ul style="list-style-type: none"> • Max. single volume size: 108 TB • Max. number of system snapshots: 65,536 • Max. number of internal volumes: 64
File sharing capabilities	<ul style="list-style-type: none"> • Max. number of local user accounts: 2,048 • Max. number of local groups: 256 • Max. number of shared folders: 256 • Max. number of concurrent SMB/NFS/AFP/FTP connections: 5007
Privileges	Windows® Access Control List (ACL) and application privileges
Directory services	Connects with Windows® AD/LDAP servers enabling domain users to log in via SMB /NFS/ AFP/FTP/File Station using their existing credentials
Security	Firewall, shared folder encryption, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, and HTTPS (configurable cipher suite)
Supported browsers	Google Chrome®, Firefox®, Microsoft Edge®, Safari® 13 and later, and Safari (iOS 13.0 and later) on iPad, Chrome (Android™ 11.0 and later) on tablet
Interface languages	English

Packages and Applications

File Server & Synchronization

- Drive
- File Station
- Hybrid Share2
- Presto File Server8
- Cloud Sync
- Universal Search
- Migration Assistant

Multimedia

- Synology Photos
- Video Station
- Audio Station
- iTunes® Server

SAN Storage

- SAN Manager
- Virtual Machine Manager

Surveillance

- Surveillance Station9

Data Protection & Backup Solutions

- Hyper Backup
- Snapshot Replication
- Synology High Availability
- Active Backup for Business
- Active Backup for Google Workspace
- Active Backup for Microsoft 365

Office Productivity

- Synology Office
- Synology Calendar
- Note Station

Management & Administration

- Synology Directory Server
- Central Management System
- VPN Server
- Active Insight
- Storage Analyzer
- Antivirus Essential
- Web Station
- DNS Server
- RADIUS Server
- Log Center

Others

- iOS/Android™ applications

Scan the QR code to download the detailed Product Specification sheet <https://sy.to/ds224psuppss>.



Environment and Packaging

Environmental safety	RoHS compliant
Package contents	<ul style="list-style-type: none">• 1 x DS224+ main unit• 1 x Quick Installation Guide• 1 x Accessory pack• 1 x AC power adapter• 1 x AC power cord• 2 x RJ-45 LAN cable
Optional accessories ¹¹	<ul style="list-style-type: none">• DDR4 non-ECC SODIMM: D4NESO-2666-4G• 3.5" SATA HDD: Plus Series• MailPlus License Pack¹²• Surveillance Device License Pack⁹• Extended Warranty: Extended Warranty Plus¹³
Warranty	2 years ^{13,14}

Note: Specifications are subject to change without notice. Please refer to the model's specifications page for the most up-to-date information.

1. Usable storage capacity may vary depending on the drives used and RAID configuration.
2. C2 Storage for Hyper Backup and Hybrid Share requires the purchase of an eligible annual or monthly subscription. A free trial is available for each newly registered device.
3. C2 Surveillance requires the purchase of an eligible annual subscription.
Each additional channel requires a separate subscription. A free trial is available.
4. DS224+ comes with 2 GB DDR4 on board and can support up to 6 GB by adding one optional DDR4 non-ECC 4 GB SO-DIMM memory module.
5. View our compatibility list for supported drives.
6. System snapshots include snapshots taken by SAN Manager and Snapshot Replication.
7. Maximum concurrent connections can be increased to 1500 by expanding memory to 6 GB.
8. A Presto File Server license can be purchased separately through the application.


9. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#)
10. Certain advanced features require the purchase of an eligible annual subscription. A free trial is available.
11. Please refer to our compatibility list for the latest optional accessories list.
12. Five MailPlus email accounts are included with the DS224+. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. [Learn more](#)
13. Up to 4 years of warranty are available as an additional bundle with Extended Warranty Plus, a 2-year extended warranty service add-on available in select regions. Check availability for Extended Warranty Plus.
14. The warranty period starts from the date of purchase as stated on your purchase receipt. Visit <https://www.synology.com/company/legal/> warranty for more information.

SYNOLOGY INC.

© 2023, Synology Inc. All rights reserved. Synology and the Synology logo are trademarks or registered trademarks of Synology Inc. Other product and company names mentioned herein may be trademarks of their respective companies. Synology may make changes to specifications and product descriptions at any time, without notice.

DS224PLUS-2023-ENU-REV001

Documents / Resources

	Synology DiskStation DS224+ File Management Hub [pdf] Owner's Manual DS224, DiskStation DS224 File Management Hub, DiskStation DS224, File Management Hub, Management Hub, Hub
---	---

References

- [Syno Legal | Synology Inc.](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.