Synology®

DiskStation

# DS224+

## 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, back up devices and data, and manage surveillance recordings.

## Highlights

- **Centralized Data Storage**
  Consolidate all your data for complete data ownership and multi-platform access[1]
- **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

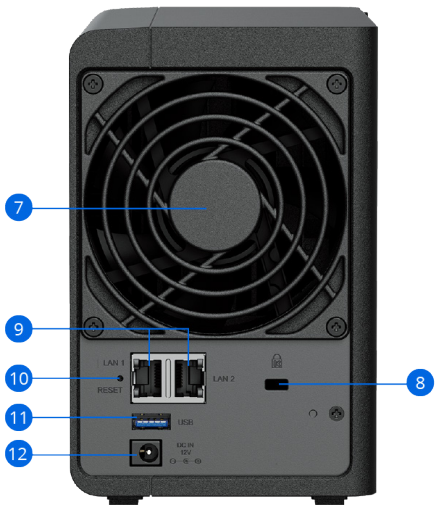
Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).

- 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 sharing[3]

# Hardware Overview

DS224+ (Front)

DS224+ (Rear)




| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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** | • 2 × 3.5" or 2.5" SATA SSD/HDD (drives not included)<br>• 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 instability[5] |
| **Hot swappable drives** | Yes |
| **External ports** | 2 x USB 3.2 Gen 1 ports |
| **Form factor** | Desktop |
| **Size (HxWxD)** | 165 × 108 × 232.2 mm |
| **Weight** | 1.3 kg |
| **LAN ports** | 2 × 1GbE RJ-45 |
| **Wake on LAN/WAN** | Yes |
| **Scheduled power on/off** | Yes |
| **System fans** | 1 x (92 × 92 × 25 mm) |
| **AC input power voltage** | 100 V to 240 V AC |
| **Power frequency** | 50/60 Hz, single phase |
| **Operating environment** | • Temperature: 0°C to 40°C (32°F to 104°F)<br>• Relative humidity: 8% to 80% RH |
| **Storage environment** | • Temperature: -20°C to 60°C (-5°F to 140°F)<br>• 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** | • Internal: Btrfs, ext4<br>• External: Btrfs, ext4, ext3, FAT32, NTFS, HFS+, exFAT |
| **Supported RAID types** | Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1 |
| **Storage management** | • Max. single volume size: 108 TB<br>• Max. number of system snapshots: 65,536[6]<br>• Max. number of internal volumes: 64 |
| **File sharing capabilities** | • Max. number of local user accounts: 2,048<br>• Max. number of local groups: 256<br>• Max. number of shared folders: 256<br>• Max. number of concurrent SMB/NFS/AFP/FTP connections: 500[7] |
| **Privileges** | Windows® Access Control List (ACL) and application privileges |
| **Directory services** | Connects with Windows® AD/LDAP servers enabling domain users to login 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, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文 |

# Packages and Applications

### File Server & Synchronization

Drive
File Station
Hybrid Share[2]
Presto File Server[8]
Cloud Sync
Universal Search
Migration Assistant

### Multimedia

Synology Photos
Video Station
Audio Station
iTunes® Server

### SAN Storage

SAN Manager
Virtual Machine Manager

### Surveillance

Surveillance Station[9]

### 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[10]
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** | • 1 x DS224+ main unit<br>• 1 x Quick Installation Guide<br>• 1 x Accessory pack<br>• 1 x AC power adapter<br>• 1 x AC power cord<br>• 2 x RJ-45 LAN cable |
| **Optional accessories**[11] | • DDR4 non-ECC SODIMM: D4NESO-2666-4G<br>• 3.5" SATA HDD: Plus Series<br>• MailPlus License Pack[12]<br>• Surveillance Device License Pack[9]<br>• Extended Warranty: Extended Warranty Plus[13] |
| **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 drives used and RAID configuration.
2. C2 Storage for Hyper Backup and Hybrid Share requires purchase of an eligible annual or monthly subscription. A free trial is available for each newly registered device.
3. C2 Surveillance requires 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 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, 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 specification and product descriptions at anytime, without notice.

DS224PLUS-2023-ENU-REV001