

Datasheet



DiskStation

DS124

Synology

DiskStation

DS124



Mini Data Management Hub

Bring scattered data under control with the DS124, a super compact data hub that empowers effortless data centralization, organization, and sharing. License-free solutions in Synology DiskStation Manager (DSM) allow you to establish a secure private cloud, conveniently access files from any device, and collaborate seamlessly with partners or clients.

- **Centralized Data Hub**
Consolidate all your data with complete data ownership and multi-platform access
- **Seamless Sharing and Syncing**
Sync and share data across devices and operating systems, enabling effortless collaboration
- **Built-in Data Protection**
Back up your files to a variety of destinations
- **Smart Surveillance**
Create a comprehensive video surveillance system that scales with your needs



Centralized Data Hub with Anytime Access

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 Windows File Explorer, Finder on Mac, and more
- Keep photos organized using **Synology Photos**' smart sorting functions
- Easily incorporate into existing network infrastructure as edge storage thanks to Windows AD and LDAP support



Streamlined Sharing, Collaboration, and Synchronization

Boost team productivity and client engagements by effortlessly sharing and syncing files, photos, and documents using Synology's integrated solutions.

- 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**
- Take advantage of the strengths of both public and private clouds by keeping them in sync with **Synology Cloud Sync**
- Share visual assets with stakeholders through the privacy-focused sharing options in **Synology Photos**



Versatile Backup and Data Protection Options

Synology DSM offers a range of comprehensive and user-friendly backup and data protection solutions that are included at no additional cost.

- 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 DS124 using **Synology Drive** or **Synology Photos**
- Efficiently back up your entire Synology NAS or select folders to a wide range of destinations, including public clouds such as C2 Storage¹, using **Hyper Backup**²

- Create point-in-time copies of shared folders that can be replicated to other Synology systems and rapidly restored with Snapshot Replication

Private Video Surveillance

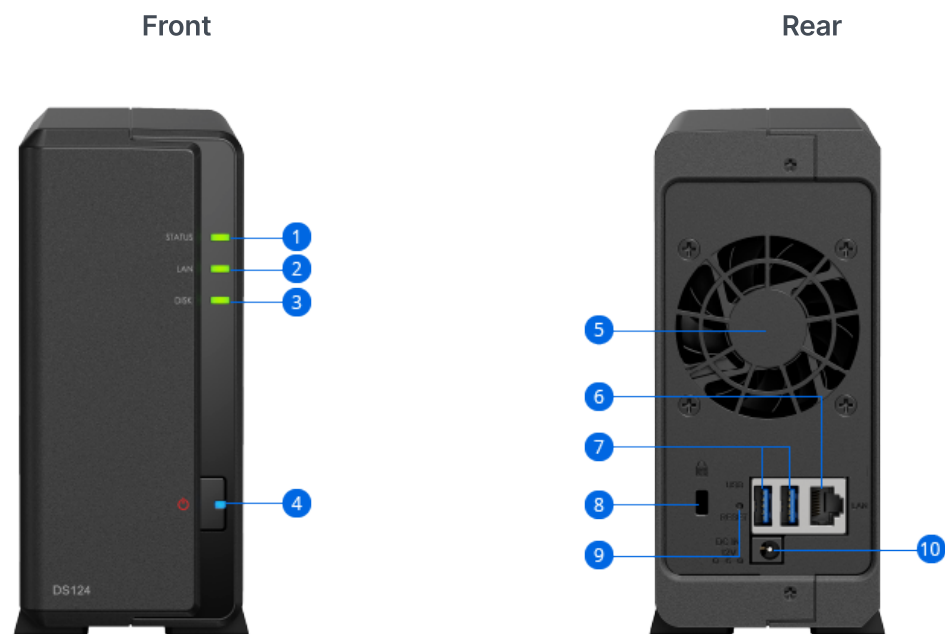
Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).

- 8,700+ 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 recording to the cloud with **C2 Surveillance** for an extra layer of data protection, online access, and more convenient sharing³

Notes:

1. C2 Storage for Hyper Backup requires purchase of an eligible [annual or monthly subscription](#). A free trial is available for each newly registered device.
2. C2 Storage is the only available cloud destination for full-system backups through Hyper Backup.
3. C2 Surveillance requires purchase of an eligible [annual subscription](#). Each additional channel requires a separate subscription. A free trial is available.

Hardware Overview



No.	Name	No.	Name
1.	Status indicator	6.	LAN port
2.	LAN indicator	7.	USB 3.2 Gen 1 port
3.	Drive Status Indicators	8.	Kensington security slot
4.	Power button and indicator	9.	Reset button
5.	Fan	10.	Power port

Technical Specifications

Hardware

CPU

CPU Model	Realtek RTD1619B
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	1.7 GHz
Hardware Encryption Engine	Yes

Memory

System Memory	1 GB DDR4 non-ECC
Notes	Please select Synology memory modules for optimum compatibility and reliability. Synology will not provide complete product warranty or technical support if non-Synology memory modules are used for memory expansion.

Storage

Drive Bays	1
Drive Type	<ul style="list-style-type: none">• 3.5" SATA HDD• 2.5" SATA SSD (with optional 2.5" Disk Holder)

External Ports

RJ-45 1GbE LAN Port	1
USB 3.2 Gen 1 Port	2

Appearance

Size (Height x Width x Depth)	166 mm x 71 mm x 224 mm
Weight	0.7 kg

Others

System Fan	60 mm x 60 mm x 15 mm x 1 pcs
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase

Temperature

Operating Temperature	0°C to 40°C (32°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative Humidity	5% to 95% RH
Maximum Operating Altitude	5,000 m

General DSM Specifications

Storage Management

Maximum Single Volume Size	108 TB
Maximum Internal Volume Number	1
Supported RAID Type	Basic
Notes	<ul style="list-style-type: none">Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.Usable capacity for each volume will be lower than the maximum volume size and is dependent on the filesystem and the amount of system metadata stored.

File System

Internal Drives	Btrfs,ext4
External Drives	Btrfs,ext4,ext3,FAT32,NTFS,HFS+,exFAT

File Services

File Protocol	SMB,AFP,NFS,FTP,WebDAV,Rsync
Maximum Number of SMB Connections (FSCT-Based) with RAM Expansion	5

Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes
Account & Shared Folder	
Maximum Local User Accounts	256
Maximum Local Groups	64
Maximum Shared Folder	64
Maximum Shared Folder Sync Tasks	2
Security	
Firewall, encryption shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (customizable cipher suite)	
General Specifications	
Supported Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV
Supported Browsers	Chrome,Firefox,Edge,Safari
Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文
Notes	For an updated list of supported browser versions, check the DSM Technical Specifications .

Packages and Applications

Synology Drive

Synchronizes files across Windows®, macOS®, Linux®, Android™ and iOS. The built-in cross-platform portal allows access to data anytime and anywhere

Maximum Number of Users	5
Maximum Number of Hosted Files	100,000 (applies to files indexed or hosted by Synology Drive . For file access through other standard protocols, refer to the File Services section above)

File Station

Provides virtual drives, remote folders, Windows® ACL editor, compression/extraction of archived files, bandwidth control for specific users/groups, creation of sharing links, and transfer logs

SAN Manager

Maximum iSCSI Target Number	2
Maximum LUN	2
LUN Clone/Snapshot, Windows ODX	Yes

Hyper Backup

Supports local backup, network backup, and data backup to other servers and public clouds, including C2 Storage

Snapshot Replication

Maximum Snapshots per Shared Folder	128
Maximum of System Snapshots	256

Synology Office

Maximum Number of Users	5
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Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
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Suggested Maximum IP Cameras and Total FPS (H.264)	<ul style="list-style-type: none">• 1080p: 12 channels, 300 FPS• 3M: 12 channels, 200 FPS• 5M: 12 channels, 140 FPS• 4K: 9 channels, 90 FPS
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Suggested Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none">• 1080p: 12 channels, 360 FPS• 3M: 12 channels, 240 FPS• 5M: 12 channels, 200 FPS• 4K: 12 channels, 140 FPS
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VPN Server

Maximum Connections	2
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Other packages

Additional 3rd-party packages are available in the Package Center

Environment & Packaging

Environment safety

RoHS Compliant

Packaging Content

- Main Unit X 1
- Accessory Pack X 1
- AC Power Adapter X 1
- RJ-45 LAN Cable X 1
- Quick Installation Guide X 1

Optional Accessories

Plus Series 3.5" SATA HDD: [HAT3300 Series](#)

Warranty

2-year hardware warranty, extendable to 4 years with [Extended Warranty Plus](#)

Notes

- The warranty period starts from the purchase date as stated on your purchase receipt. ([Learn more](#))
- [Extended Warranty Plus](#) is only available in Europe and North America. [EW201/EW202](#) is only available in Asia, Africa, and Oceania. For exact availability information please visit their respective websites.

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