

Datasheet



DiskStation

DS423

Synology

DiskStation

DS423



Private Cloud Hub for Essential File and Media Management

The Synology DiskStation DS423 offers four bays of storage and everything you need to consolidate, organize, and secure your data. Leverage built-in solutions in Synology DiskStation Manager (DSM) to sync and access files across multiple devices, create a digital photo hub for work or leisure, or secure your premises with intelligent video surveillance tools.

- **Centralized Data Storage**
Consolidate up to 72 TB of data¹ and enjoy 100% data ownership and multi-platform access from anywhere
- **Secure Sharing and Syncing**
Safely access and share files and media from anywhere, and keep friends, partners, or collaborators on the same page
- **Simple Data Protection**
Back up your media and documents to multiple destinations, and leverage snapshots to protect against malware
- **Versatile Surveillance**
Protect your home or business with intuitive monitoring, archiving, and analysis tools for up to 30 IP cameras



Spacious Storage Server for Data Availability

Organize data scattered across devices. Your Synology NAS can serve as a go-to platform to securely and conveniently store any type of data with comprehensive and intuitive access and management tools.

- Browse and manage your files and media from any browser with **Synology Drive**, or access data through your default file browser using common network protocols
- Enable QuickConnect to access your NAS directly from the anywhere without configuring complex port forwarding rules
- Keep your shots and clips organized using smart sorting functions in **Synology Photos**
- Deploy your Synology NAS as edge storage and fit it easily into the existing infrastructure thanks to Windows AD and LDAP integration



Collaboration and Synchronization Platform

Easily share documents and digital memories with family and friends, and boost productivity while working in a team or with your clients.

- Build a private data cloud for easy file management and sharing across all platforms, and keep data in sync between two or more Synology systems with **Synology Drive**
- Maintain a reduced local footprint by streaming data on demand from a central data repository through the cloud with **Hybrid Share²**
- Synchronize data to and from popular cloud storage platforms with **Synology Cloud Sync**
- Share media with family, friends, or collaborators through the privacy-focused sharing options in **Synology Photos**



Flexible Data Protection Options

Synology DSM comes with a host of backup and data protection solutions available at no extra cost.

- Leverage **Synology Drive** to protect data from ransomware attacks or accidental deletion with real-time or scheduled backup of your PC folders
- Safeguard photos and videos taken on mobile devices by automatically creating remote copies with **Synology Drive** or **Synology Photos**

- Efficiently back up your entire Synology NAS or select folders to multiple destinations using Hyper Backup
- Store backups off-site on **C2 Storage**,² a dedicated and secure cloud destination powered by Synology C2
- Take NAS protection to the next level with **Snapshot Replication** by creating point-in-time copies of shared folders that can be replicated to other Synology systems and rapidly restored

Versatile and Private Video Surveillance

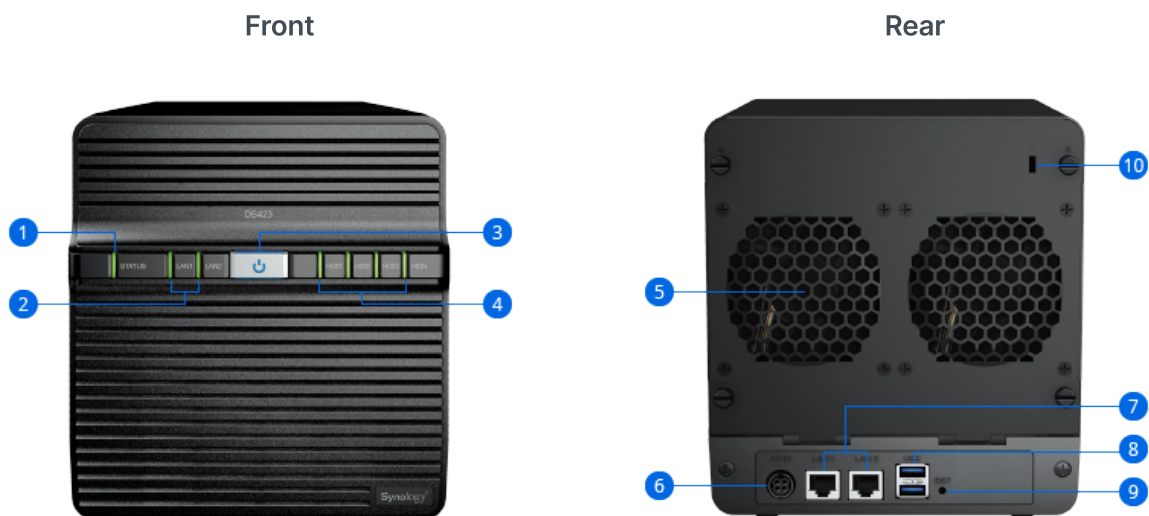
Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).

- 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
- Dual recording to the cloud with **C2 Surveillance** for online access and convenient sharing³

Notes:

1. Raw capacity. 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.

Hardware Overview



No.	Name	No.	Name
1.	Status indicator	6.	Power port
2.	LAN indicator	7.	LAN Ports
3.	Power Button	8.	USB 3.2 Gen 1 Ports
4.	Drive Status Indicators	9.	Reset Button
5.	Fan	10.	Kensington Security Slot

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	2 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	4
Drive Type	<ul style="list-style-type: none">• 3.5" SATA HDD• 2.5" SATA SSD
Hot Swappable Drive	Yes

External Ports

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

Appearance

Size (Height x Width x Depth)	184 mm x 168 mm x 230 mm
Weight	2.21 kg

Others

System Fan	80 mm x 80 mm x 20 mm x 2 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	64
Supported RAID Type	Synology Hybrid RAID,Basic,JBOD,RAID 0,RAID 1,RAID 5,RAID 6,RAID 10

Notes

- 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
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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
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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)
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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: 30 channels, 600 FPS • 3M: 30 channels, 300 FPS • 5M: 20 channels, 200 FPS • 4K: 15 channels, 150 FPS
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Suggested Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none"> • 1080p: 30 channels, 800 FPS • 3M: 30 channels, 500 FPS • 5M: 30 channels, 450 FPS • 4K: 20 channels, 200 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
- AC Power Cord X 1
- RJ-45 LAN Cable X 2
- Quick Installation Guide X 1

Optional Accessories

- Enterprise Series 3.5" SATA HDD: [HAT5300 Series](#)
- Plus Series 3.5" SATA HDD: [HAT3300 Series](#)
- Enterprise Series 2.5" SATA SSD: [SAT5200 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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