

DiskStation DS423+



Brand: Synology

Product Code: DS423+

Availability: 10

Weight: 2.18kg

Dimensions: 223.00mm x 199.00mm x
166.00mm

Price: \$44,328.00

Short Description

Synology 4 Bay DiskStation DS423+

Description

Conquer home office data chaos



Powerful functionality packed into a 4-bay chassis

Capable and compact



Consolidate and share

Store, organize, and share up to 80 TB of data.



Integrated data protection

Contains hardware and software safeguards engineered to protect your data — trusted by millions.

A capable all-around performer

The versatile DS423+ can serve as a central storage device as well as a multimedia hub.

Up to 226/224 MB/s read/write^{[1](#)}

2 x M.2 NVMe SSD slots^{[2](#)}

2 x 1GbE LAN ports



Btrfs: advanced file system for data protection

The Synology DiskStation Manager (DSM) operating system that powers DS423+ uses the advanced Btrfs file system, which safeguards your data against corruption and allows for the reversal of any unintended or malicious changes through the use of snapshot technology.



Store, share, and protect

Manage all your documents, photos, and other files, back up applications and devices, and protect your physical assets with professional video surveillance.

Private cloud for seamless data access

A private cloud for all your devices

Store, sync, access, and share data from any device, wherever you are. Work seamlessly between different platforms and devices, and access your files through mobile apps, desktop clients, and a browser-based interface. Quickly and easily roll back files in case of accidental deletion, mistakes, malware, etc., with the versioning feature.

Keep your photos organized

Effortlessly keep multiple Synology NAS in sync

Share data with the power of the cloud



Multi-layered backup

Back up PCs, smartphones, cloud apps, and more

Consolidate and automate backup tasks for PCs, file servers, VMs, SaaS applications, and more with Active Backup Suite. Administer device backups remotely through a centralized portal and quickly restore specific files or entire devices to keep your

business up and running. Take advantage of built-in remote backup solutions designed to protect your data with seamless 3-2-1 backup configurations.

Perform full Synology system backups

Protect folders and LUNs with snapshots



Smart surveillance

Synology Surveillance Station

Protecting your business has never been easier, with centralized management, support for over 8,300 IP camera models, and remote monitoring and playback. Synology's video management system provides all the tools you need for live monitoring, investigation, management, and backup.

Dual recording to the cloud



Software

DSM Specifications

[Storage Management](#)

Maximum Single Volume Size	108 TB
Maximum Internal Volume Number	64
M.2 SSD Storage Pool Support*	
SSD Read/Write Cache (Determining cache size)	
SSD TRIM	
Supported RAID Type	<ul style="list-style-type: none">• Synology Hybrid RAID• Basic• JBOD• RAID 0• RAID 1• RAID 5• RAID 10
RAID Migration	<ul style="list-style-type: none">• Basic to RAID 1• Basic to RAID 5• RAID 1 to RAID 5• RAID 5 to RAID 6
Volume Expansion with Larger HDDs	<ul style="list-style-type: none">• Synology Hybrid RAID• RAID 1• RAID 5• RAID 6• RAID 10
Volume Expansion by Adding a HDD	<ul style="list-style-type: none">• Synology Hybrid RAID• JBOD• RAID 5
Global Hot Spare Supported RAID Type	<ul style="list-style-type: none">• Synology Hybrid RAID• RAID 1• RAID 5
Notes	<ul style="list-style-type: none">• Creating M.2 storage

pools requires the use of Synology-verified SSDs, which are rigorously tested under extreme temperature conditions. Thermal parameters for SSDs and NAS units are fine-tuned to ensure optimal management of thermal conditions under I/O-intensive environments. ([Learn more](#))

- 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.
- Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.

[File System](#)

Internal Drives

External Drives

- Btrfs
- ext4
- Btrfs
- ext4
- ext3
- FAT
- NTFS
- HFS+
- exFAT
- SMB
- AFP

[File Services](#)

File Protocol

- NFS
- FTP
- WebDAV
- Rsync

Maximum Concurrent 500

SMB/AFP/FTP Connections

Maximum Concurrent 1,500

SMB/AFP/FTP Connections

(with RAM expansion)

Windows Access Control

List (ACL) Integration

NFS Kerberos Authentication

Notes

- Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of supported RAM.
- The testing standard was based on the maximum number of concurrent connections supported by this model. During the testing, 25% of the connections were used to transfer files concurrently. The transfer process guaranteed that the connections were not interrupted; the minimum transfer speed was not guaranteed.

[Account & Shared Folder](#)

Maximum Local User 2,048

Accounts

Maximum Local Groups 256

Maximum Shared Folder 512

Maximum Shared Folder 8

Sync Tasks

Hybrid Share	Maximum Hybrid Share Folders	10
Hyper Backup	Folder and Package Backup Entire System Backup Notes	Full-system backup requires DSM 7.2 or later.
High Availability	Synology High Availability	
Log Center	Syslog Events per Second	800
Virtualization	VMware ESXi 6.5 and VAAI Windows Server 2022 Citrix Ready OpenStack	
General Specifications	Supported Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV
	Supported Browsers	<ul style="list-style-type: none"> • Chrome • Firefox • Edge • Safari
	Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ????, ????
	Notes	For an updated list of supported browser versions, check the DSM Technical Specifications .
Add-on Packages view the complete package list		
Central Management System		
Synology Chat	Suggested Users Notes	100 <ul style="list-style-type: none"> • Measured with simulated users, each with an average record of 20,000 messages, emojis, or

stickers. The required server response time is below ten seconds.

- Models with expandable memory are tested with their maximum supported memory.

Download Station	Maximum Concurrent Download Tasks	80	
SAN Manager	Maximum iSCSI Target Number	128	
	Maximum LUN	256	
Synology MailPlus / MailPlus Server	LUN Clone/Snapshot, Windows ODX		
	Free Email Accounts	5	(Additional accounts require purchase of licenses)
	Suggested Users	500	
	Maximum Server Performance	1,224,000 emails per day, approx. 37GB	
	Notes	<ul style="list-style-type: none"> • Suggested users is derived from testing in an environment with 20% heavy users (each with 20,000 pre-populated emails and receiving 240 emails per day) and 80% light users (each receiving an average of 20 emails per day). Learn more • Models with more than 4 bays were installed with two SSDs for SSD cache. • Models with expandable memory are tested with their maximum supported memory. • The performance of 	

the mail system will slightly decrease in high-availability mode due to data synchronization between the two servers.

- Functions that were enabled in all of the tests above: anti-spam, anti-virus, DNSBL, greylist, content scan, full-text search (English only).

[Media Server](#) [Synology Photos](#)

DLNA Compliance
Facial Recognition
Object Recognition
Notes

Object recognition requires an upgrade of memory capacity to a minimum of 4 GB.

[Snapshot Replication](#)

Maximum Snapshots per Shared Folder
Maximum of System Snapshots

1,024

65,536

[Surveillance Station](#)

Default Licenses

2 ([Additional cameras require purchase of licenses](#))

Suggested Maximum IP Cameras and Total FPS (H.264)

- 720p: 40 channels, 1200 FPS
- 1080p: 40 channels, 800 FPS
- 3M: 35 channels, 350 FPS
- 5M: 28 channels, 280 FPS
- 4K: 17 channels, 170 FPS

Suggested Maximum IP Cameras and Total FPS (H.265)

- 720p: 40 channels, 1200 FPS
- 1080p: 40 channels, 1200 FPS
- 3M: 40 channels, 600

Notes

FPS

- 5M: 40 channels, 480 FPS
- 4K: 20 channels, 200 FPS

- Performance figures are obtained from testing conducted with the device fully populated with drives, with their default memory configuration, and under a continuous recording setup. Actual system capabilities may vary based on configuration, drive performance, enabled features, and the presence of additional workloads.
- Use [NVR Selector](#) to quickly find a suitable model based on your requirements.
- The maximum number of camera stream outputs is 2 times the suggested maximum number of IP cameras.

[Synology Drive](#)

Recommended Number of Concurrent Sync Clients

350 (the number of connections that can be maintained when the recommended number of hosted files was reached)

Recommended Number of Hosted Files

5,000,000 (applies to files indexed or hosted by [Synology Drive](#). For file access through other standard

protocols, refer to the File Services section above)

Notes

- Exceeding the recommended numbers above will not block application operations, but may result in longer response time.
- Utilizing SSD cache can significantly improve performance.
- Models with expandable memory are tested with their maximum supported memory.
- Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

[Synology Office](#)

Suggested Users Notes

3,000

- Suggested users is derived from testing in an environment with 60% idle users (each logging in and viewing documents) and 40% active users (each executing random actions at intervals of 20 to 40 seconds) operating within documents, each document having 30 users. [Learn more](#)
- Models with expandable memory are tested with their maximum supported

memory.

- Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

Virtual Machine Manager	Recommended Virtual Machine Instances	2 (Learn more)
	Recommended Virtual DSM Number (Licenses required)	2 (including 1 Free License)
	Notes	The specifications vary depending on system configuration and memory size.
VPN Server	Maximum Connections	40

Specification

NAS	
CPU Model	Intel Celeron J4125
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.0 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	YES
Memory	2 GB DDR4 non-ECC
Drive Bays	4
Compatible Drive Type	3.5
Hot Swappable Drive	YES
RJ-45 1GbE LAN Port	2
USB 3.2 Gen 1 Port	2
System Fan	92 mm x 92 mm x 2 pcs
Power Supply Unit / Adapter	90 watts 100V to 240V AC 50/60 Hz, Single Phase
Total Memory Slots	1
Maximum Memory Capacity	18 GB (2 GB + 16 GB)
M.2 Drive Slots	2 (NVMe)

Product Gallery

