

DiskStation DS923+



Brand: Synology

Product Code: DS923+

Availability: 10

Weight: 2.24kg

Dimensions: 223.00mm x 199.00mm x
166.00mm

Price: \$50,675.00

Short Description

Synology 4 Bay DiskStation DS923+

Description

Take your data management to the next level

Versatile smart storage that helps you consolidate and store your growing digital data.



Stunningly compact

Powerful functionality in a tiny package, with room for 10GbE and dual NVMe drives.



Consolidate and share

Flexibly store and organize 50 TB of data, then share with anyone.



Keep your data safe

Hardware and software engineered to protect your data — trusted by millions.

Simply faster

DS923+ can handle more demanding application workloads and a greater number of concurrent users compared to prior-generation systems. Experience faster file indexing in Synology Drive, photo organization in Photos, and concurrent file transfers.

Synology Drive
24%
faster file indexing

Synology Photos
25%
faster photo indexing

Multiple file transfers
32%
faster random write

The performance you need

Reduce transfer times with the DS923+, designed to accelerate your workloads. Easily add faster networking and NVMe drives to further boost performance.

Up to 592/562 MB/s read/write

Up to 10GbE networking

2 x M.2 NVMe cache & storage pool

Storage that fits your needs

Is your data scattered across external drives and public cloud accounts? With DS923+, you can consolidate your data with over 50 TB across 4 bays. Need more space? Expand with DX517 for over 140 TB of storage.

4 bays 60 TB



9 bays 140 TB

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 storage



Multi-layered backup



Smart surveillance

Private cloud storage

Access files from all your devices and protect them with smart versioning. Manage, share, and sync your data across locations.

A private cloud for all your devices

Effortlessly deploy your own personal cloud with Synology's private cloud solution. Simplify file access and consolidate your data management to benefit from easier file sharing and collaboration.

Professional photo management

Efficiently back up and organize photos and videos with management tools for novice and professional users alike. Automatically organize your content into albums and create secure share links to share files with family, friends, or clients.



Sync files and folders between sites

Site-to-site file syncing allows collaborators to sync individual files or folders between Synology devices, whether at home, another office, or across the world. Combine convenient access with 100% data ownership.

Share data with the power of the cloud

Reduce your on-site storage footprint and benefit from data center network speeds with hybrid cloud technology. Set up Hybrid Share Folders to efficiently store cold data in the cloud, while keeping frequently accessed files cached locally on your DS923+ and accessible at LAN speeds.



Multi-layered backup

Back up files, folders, physical devices, VMs, and SaaS applications with free solutions, and protect your NAS with built-in technologies.

Centralize your backup and recovery solution

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 system backups with Synology

Protect all data, applications, and configurations on your Synology systems with comprehensive scheduled backups to local and remote servers, external drives, or cloud storage destinations including Synology C2 Storage.

Protect folders and LUNs with snapshots

Configure efficient point-in-time snapshots of shared folders and LUNs at intervals as short as 5 minutes. Allow users to easily restore previous versions of files unassisted, quickly recover VMs, and copy snapshots to another server to benefit from rapid storage failover.



Smart surveillance

Transform your Synology device into a full-featured video management system for a wide range of compatible IP cameras.

Synology Surveillance Station

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



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 6• 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

Notes

- RAID 6 (with Expansion Unit)
- Synology Hybrid RAID
- RAID 1
- RAID 5
- RAID 6 (with Expansion Unit)
- RAID 10 (with Expansion Unit)
- 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 vary depending on drives used, the number of drive bays available, and the RAID configuration.

[File System](#)

Internal Drives

- Each internal volume (may consist of multiple drives) is expandable up to 108TB.

External Drives

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

[File Services](#)

File Protocol

- SMB
- AFP
- NFS
- FTP
- WebDAV
- Rsync

Maximum Concurrent SMB/AFP/FTP Connections 1,000

Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion) 2,000

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 Accounts	2,048
Maximum Local Groups	256
Maximum Shared Folder	512
Maximum Shared Folder Sync Tasks	16

[Hybrid Share Hyper Backup](#)

Hybrid Share Folder Number	10
Folder and Package Backup	
Entire System Backup	
Notes	Full-system backup requires DSM 7.2 or later.

[High Availability Log Center](#) Virtualization

Synology High Availability	
Syslog Events per Second	800
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, český, ???????, ???, ???, ????, ????

For an updated list of supported browser versions, check the [DSM Technical Specifications](#).

Notes

Add-on Packages [view the complete package list](#)
[Central Management System](#)
[Synology Chat](#)

Suggested Users
 Notes

100

- 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
 LUN Clone/Snapshot,
 Windows ODX

256

[Synology MailPlus /
 MailPlus Server](#)

Free Email Accounts

5 ([Additional accounts
 require purchase of licenses](#))

Suggested Users
 Maximum Server
 Performance
 Notes

500

1,224,000 emails per day,
 approx. 37GB

- 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 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](#)

[Snapshot Replication](#)

[Surveillance Station](#)

DLNA Compliance
Facial Recognition
Object Recognition

Maximum Snapshots per Shared Folder 1,024

Maximum of System Snapshots 65,536

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, 1050 FPS
- 3M: 40 channels, 600 FPS
- 5M: 30 channels, 360 FPS

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

- 4K: 20 channels, 200 FPS
- 720p: 40 channels, 1200 FPS
- 1080p: 40 channels, 1200 FPS
- 3M: 40 channels, 1000 FPS
- 5M: 40 channels, 600 FPS
- 4K: 30 channels, 300 FPS

Notes

- 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.

Recommended Number of Hosted Files	<p>maintained when the recommended number of hosted files was reached) 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)</p>
Notes	<ul style="list-style-type: none"> • 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.
Suggested Users	<p>3,000</p> <ul style="list-style-type: none"> • 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

4 [\(Learn more\)](#)

Recommended Virtual DSM Number [\(Licenses required\)](#)

4 (including 1 Free License)

Notes

The specifications vary depending on system configuration and memory size.

[VPN Server](#)

Maximum Connections

40

Specification

NAS	
CPU Model	AMD Ryzen R1600
CPU Quantity	1
CPU Core	2
CPU Architecture	64-bit
CPU Frequency	2.6 (base) / 3.1 (turbo) GHz
Hardware Encryption Engine	YES
Memory	4 GB DDR4 ECC SODIMM
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	100 watts 100V to 240V AC 50/60 Hz, Single Phase

Total Memory Slots	2
Maximum Memory Capacity	64 GB (32 GB x 2)
M.2 Drive Slots	2
Expansion Port	1
PCIe Expansion	1 x Gen3 x2 network upgrade slot

Product Gallery

