

Datasheet



DiskStation

DS425+

Synology

DiskStation

DS425+



Your Centralized Hub for Storage, Syncing, and Seamless Collaboration

The DS425+ delivers powerful functionality in a compact 4-bay, desktop-friendly design. Built-in 2.5GbE networking provides excellent network speeds out of the box. Powered by Synology DiskStation Manager (DSM), the DS425+ serves as a versatile all-in-one solution for data sharing, synchronization, backup, and surveillance.

- **Capable Performance**
Up to 278/281 MB/s sequential read/write throughput¹ supports stable data transfers
- **Fast Networking**
Built-in 2.5GbE port for fast connectivity out of the box
- **Versatile Network Storage**
Leverage built-in file and photo management, data protection, and surveillance solutions
- **Centralized Data Storage**
Store up to 80 TB of data² in one place, maintain 100% data ownership, and enjoy multi-platform access
- **Extendable Product Support**
Backed by Synology's 3-year limited hardware warranty, extendable to 5 years in select markets^{3,4}

A Compact & Capable Storage Platform

The DS425+ provides intuitive and comprehensive file management, media organization, and backup capabilities. Its capable performance and compact size make it perfect for users with space constraints, including IT enthusiasts, creative professionals, and businesses of all sizes. It is an ideal edge device for branch offices or retail locations for small firms or large enterprises.

- Up to **278 MB/s sequential read** and **281 MB/s sequential write** performance¹ enables fast file sharing, syncing, streaming, and backup for multiple users
- Includes **one 2.5GbE port and one 1GbE port**, providing fast networking with failover support
- Supports **4 × 2.5" SATA SSD** and **3.5" SATA HDD**.⁵ Synology hard drives and SSDs are designed to integrate seamlessly with Synology systems, delivering exceptional reliability
- Two built-in M.2 slots provide **SSD caching**⁶ without occupying drive bays

Ease of Use and Security Features

A suite of convenience and security features, combined with DSM's intuitive UI, ensures a seamless experience for users of all levels of expertise.

- Easily **access your system from any web browser** via QuickConnect
- Adaptive Multi-Factor Authentication (AMFA) triggers upon suspicious external logins, **providing an additional layer of security**
- Improve management efficiency with **customizable delegation roles**, allowing admins to quickly assign roles to non-admin users while restricting access to critical system settings
- **Active Insight**⁷, Synology's cloud-based fleet monitoring solution, leverages machine learning to detect malware and other malicious activity and automatically creates immutable snapshots to protect your data

Built-in Data Protection Solutions

License-free solutions help protect data and configurations on your Synology system, ensure maximum system uptime, and back up and restore all your devices, VMs, and cloud applications.

- **Synology Active Backup Suite** consolidates backup tasks and offers rapid restoration of Windows and Linux endpoints, VMs, Synology NAS, and SaaS applications
- **Hyper Backup** backs up your Synology system data to multiple destinations securely and efficiently with integrity checks and powerful deduplication, compression, and versioning options
- **Snapshot Replication** provides schedulable, near-instantaneous data protection with version control, ensuring that all shared folders and LUNs on your Synology system remain safe and available

- **C2 Storage for Hyper Backup** offers a dedicated secure public cloud destination for Synology NAS backup data⁸

A Collaboration, Communication, and Organization Hub

Synology provides a private cloud solution for on-site and remote workers, as well as home users, to concurrently edit documents, share files, manage emails, send instant messages, manage photos, and more.

- **Synology Drive** serves as a centralized hub to keep your files labeled and organized for easy access, offering granular file sharing permissions and customizable security features to ensure file safety
- **Synology Photos** provides a comprehensive solution for storing, organizing, and sharing photos and videos, with powerful features suitable for both personal and professional use
- **Synology Office** enables users to collaborate on documents, spreadsheets, and presentation slides in real time, supported by convenient options such as file versioning for easy restoration and password protection
- **Synology Chat** brings teams together with one-on-one chats, group chats, and encrypted private channels over multiple platforms
- **Synology MailPlus**⁹ provides a secure, reliable, and private email server
- **Synology Calendar** helps teams keep track of priorities with convenient calendar sharing and scheduling
- **Synology Hybrid Share** enhances multi-site teamwork with a global hybrid cloud file system which combines the scalability of the cloud with the fast local access provided by Synology systems⁸

Private Video Surveillance

Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).¹⁰

- 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 Backup for Surveillance** for an extra layer of data protection and more convenient sharing¹¹

Notes:

1. Performance figures obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration. See [performance charts](#) for more information.
2. Raw capacity calculated using 20 TB drives. Usable storage capacity may vary depending on drives used and RAID configuration.
3. 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.
4. Up to 5 years of warranty are available as an additional bundle with Extended Warranty Plus or Extended Warranty, both 2-year extended warranty service add-ons available in select regions. Check availability for [Extended Warranty](#) or [Extended Warranty Plus](#).
5. Compatible drives are mandatory. Please consult our [compatibility list](#) before purchasing hard drives. For more details, please refer to [this article](#).
6. Synology Enterprise SATA SSDs or M.2 NVMe SSDs enable SSD caching. M.2 NVMe SSDs can also create storage pools. Drives sold separately.
7. Synology Active Insight includes three free licenses. Additional licenses can be added with the purchase of an annual [subscription](#).
8. C2 Storage for Hyper Backup and Hybrid Share requires purchase of an annual or monthly [subscription](#). A free trial is available for each newly registered device.
9. Five MailPlus email accounts are included. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. [Learn more](#)
10. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#)
11. 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	8.	1GbE RJ-45 port
2.	Drive status indicators	9.	2.5GbE RJ-45 port
3.	Drive tray lock	10.	Reset button
4.	USB 3.2 Gen 1 port	11.	USB 3.2 Gen 1 port
5.	Power button and indicator	12.	Power port
6.	Drive trays	13.	Kensington security slot
7.	Fans	14.	M.2 NVMe SSD slots

Technical Specifications

Hardware

CPU

CPU Model	Intel Celeron J4125
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	2.0 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	Yes

Memory

System Memory	2 GB DDR4 non-ECC
Total Memory Slots	1
Maximum Memory Capacity	6 GB (2 GB + 4 GB)
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	3.5" SATA HDD 2.5" SATA SSD - M.2 2280 NVMe SSD
Hot Swappable Drive	Yes
Notes	Compatible drives are mandatory. Please consult our compatibility list before purchasing hard drives. For more details, please refer to this article .

External Ports

RJ-45 1GbE LAN Port	1
RJ-45 2.5GbE LAN Port	1
USB 3.2 Gen 1 Port	2

Appearance

Size (Height x Width x Depth)	166 mm x 199 mm x 223 mm
Weight	2.18 kg

Others

System Fan	92 mm x 92 mm x 25 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	32
SSD Read/Write Cache (Determining cache size)	Yes
Supported RAID Type	Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10

Notes

- 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	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	10
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes
Account & Shared Folder	
Maximum Local User Accounts	512
Maximum Local Groups	128
Maximum Shared Folder	128
Maximum Shared Folder Sync Tasks	4
Virtualization	
VMware ESXi 6.5 and VAAI	Yes
Windows Server 2022	Yes
Citrix Ready	Yes
OpenStack	Yes
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	20
Maximum Number of Hosted Files	500,000 (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

Hybrid Share

Efficiently synchronizes files across sites by keeping shared data on Synology C2 Storage and streaming files to Synology NAS worldwide on request. Frequently requested files are cached at each site for low-latency access C2 Storage for Hyper Backup and Hybrid Share requires purchase of an annual or monthly subscription. A free trial is available for each newly registered device.

SAN Manager

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

Virtual Machine Manager

Recommended Virtual Machine Instances	2 (Learn more)
Recommended Virtual DSM Number (Licenses required)	2 (including 1 Free License)

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 High Availability

Reduces service downtime by combining two identical NAS into a high-availability cluster

Synology Chat

Maximum Number of Users	100
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Synology Office

Maximum Number of Users	20
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Synology MailPlus / MailPlus Server

A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering options

Free Email Accounts	5 (Additional accounts require purchase of licenses)
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Maximum Number of Users	20
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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)	• 1080p: 40 channels, 800 FPS • 3M: 35 channels, 350 FPS • 5M: 28 channels, 280 FPS • 4K: 17 channels, 170 FPS
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Suggested Maximum IP Cameras and Total FPS (H.265)	• 1080p: 40 channels, 1200 FPS • 3M: 40 channels, 600 FPS • 5M: 40 channels, 480 FPS • 4K: 20 channels, 200 FPS
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Central Management System

Provides a single interface to manage and monitor multiple Synology NAS

VPN Server

Maximum Connections	4
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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
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Optional Accessories

- DDR4 non-ECC SODIMM: [D4NS01-4G](#)
 - Enterprise Series 3.5" SATA HDD: [HAT5300 Series](#)
 - Plus Series 3.5" SATA HDD: [HAT3300 Series](#)
 - Enterprise Series 2.5" SATA SSD: [SAT5200 Series](#)
 - Enterprise Series M.2 2280 NVMe SSD: [SNV3400 Series](#)
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Warranty

3-year hardware warranty, extendable to 5 years with [EW201](#) or [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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