Datasheet

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DiskStation

DS1825+

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Flexible High-Capacity Data Management Platform

The DS1825+ is a versatile 8-bay storage solution designed to store and protect mission-critical data. Flexible support for faster networking speeds and capacity expansion makes the DS1825+ ideal for businesses needing a scalable and customizable storage solution for their growing data needs. Powered by Synology DiskStation Manager (DSM), this device is a flexible all-in-one solution for data sharing, synchronization, backup, and surveillance.

- **Dependable Performance**
  Up to 2,239/1,573 MB/s sequential read/write throughput[1] supports office-wide applications

- **Fast and Flexible Networking**
  Built-in 2.5GbE ports, supports 10GbE SFP+/RJ-45 and 25GbE SFP28 adapter cards[2]

- **Simple Expansion**
  Scale up on demand to with two DX525 expansion units[3] for up to 18 drive bays and 360 TB of raw storage[4]

- **Comprehensive Backups**
  Protect your IT infrastructure with license-free solutions for backup, replication, and recovery

- **Long-Term Support**
  Backed by Synology's 3-year limited hardware warranty, extendable to 5 years in select markets[5,6]

Versatile Storage Solution for Growing Businesses

The DS1825+ is a versatile storage solution that seamlessly integrates with your existing infrastructure. It offers scalable capacity, flexible network connectivity, and robust data protection, making it ideal for businesses and creative professionals with demanding storage requirements.

- Up to **2,239/1,573 MB/s sequential read/write** speeds[1] for demanding workloads
- Supports **8 × 2.5" SATA SSD** and **3.5" SATA HDD**[7]. Synology hard drives and SSDs are designed to integrate seamlessly with Synology systems, delivering exceptional reliability
- **Expandable to 18 drives** for up to **360 TB of raw storage with two Synology DX525 expansion units**[3]
- **Two built-in 2.5GbE ports** offer fast networking, with Link Aggregation supporting failover and load balancing capabilities
- Includes **PCIe 3.0 slot** for optional optional **10GbE RJ-45** or **10/25GbE SFP+/SFP28 adapter cards** to expand network capabilities[2]
- Two built-in M.2 slots provide **SSD caching**[8] capability 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**, 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[9]

Built-in Data and Uptime 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 High Availability** provides fast failover between two identical Synology units to keep services available without interruption
- **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

- **Hyper Backup** backs up your Synology system data to multiple destinations securely and efficiently with integrity checks and powerful deduplication, compression, and versioning options
- **Synology Active Backup Suite** lets you consolidate protection of Windows clients and servers, Linux endpoints, Synology systems, VMware® and Hyper-V® VMs, and SaaS applications, maximizing storage efficiency with data deduplication technology
- **C2 Storage for Hyper Backup** offers a dedicated secure public cloud destination for Synology NAS backup data[10]

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**[11] 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 systems[10]

Reliable Virtualization and Containerization

Leverage your Synology system as **virtual machine storage**, or as an alternative container or VM host. With certification for VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, and OpenStack environments, Synology systems seamlessly integrate with common virtualization and cloud platforms.

- **Synology Storage Console** for VMware or Windows platforms lets you manage VM storage components directly from your hypervisor. VMware VAAI integration and Windows ODX help

offload storage operations and speed up data transfers

- **Host lightweight containers and VMs** with **Container Manager** and **Synology Virtual Machine Manager**, a native hypervisor that supports Windows, Linux, and virtual versions of DSM[12]
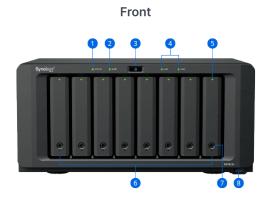
Private Video Surveillance

Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).[13]

- 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 sharing[14]

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. For the most up-to-date list of compatible NICs, please check our compatibility list.

3. Synology DX525 expansion unit sold separately.

4. Raw capacity calculated using 20 TB drives. Usable storage capacity may vary depending on drives used and RAID configuration.

5. 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.

6. 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.

7. Compatible drives are mandatory. Please consult our compatibility list before purchasing hard drives. For more details, please refer to this article.

8. Synology Enterprise SATA SSDs or M.2 NVMe SSDs enable SSD caching. M.2 NVMe SSDs can also create storage pools. Drives sold separately.

9. Synology Active Insight includes three free licenses. Additional licenses can be added with the purchase of an annual subscription.

10. 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.

11. Synology MailPlus includes five email accounts free of charge. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. Learn more

12. Certain advanced features require Virtual Machine Manager Pro. One Virtual DSM license is included. Additional Virtual DSM instances require the purchase of Virtual DSM Licenses.

13. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. Learn more

14. C2 Backup for Surveillance requires purchase of an eligible annual subscription. Each additional channel requires a separate subscription. A free trial is available.

Hardware Overview

Front

Rear

No.	Name	No.	Name
1.	Status indicator	9.	Power port
2.	Alert indicator	10.	Fans
3.	Power button and indicator	11.	PCI Express expansion slot
4.	LAN indicators	12.	Kensington security slot
5.	Drive status indicator	13.	Expansion port
6.	Drive trays	14.	2.5GbE RJ-45 ports
7.	Drive tray lock	15.	Reset button
8.	USB 3.2 Gen 1 port	16.	USB 3.2 Gen 1 ports

Technical Specifications

Hardware

CPU

CPU Model	AMD Ryzen V1500B
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	2.2 GHz
Hardware Encryption Engine	Yes

Memory

System Memory	8 GB DDR4 ECC SODIMM
Memory Module Pre-installed	8 GB (8 GB x 1)
Total Memory Slots	2
Maximum Memory Capacity	32 GB (16 GB x 2)
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	8
Maximum Drive Bays with Expansion Unit	18 (DX525 × 2)
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 2.5GbE LAN Port	2
USB 3.2 Gen 1 Port	3
Expansion Port	2

PCIe

PCIe Expansion	1 x Gen3 ×8 slot (x4 link)

Appearance

Size (Height x Width x Depth)	166 mm x 343 mm x 243 mm
Weight	6 kg

Others

System Fan	120 mm x 120 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	200 TB (32 GB memory required) 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. - Volumes over 108 TB require 32 GB of memory or more.

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	60
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes

Account & Shared Folder

Maximum Local User Accounts	1,024
Maximum Local Groups	256
Maximum Shared Folder	256
Maximum Shared Folder Sync Tasks	8

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	100
Maximum Number of Hosted Files	1,000,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)

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	64
Maximum LUN	128
LUN Clone/Snapshot, Windows ODX	Yes

Virtual Machine Manager

Recommended Virtual Machine Instances	8 (Learn more)
Recommended Virtual DSM Number (Licenses required)	8 (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	256
Maximum of System Snapshots	4,096

Synology High Availability

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

Synology Chat

Maximum Number of Users	150

Synology Office

Maximum Number of Users	100

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)
Maximum Number of Users	120

Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
Suggested Maximum IP Cameras and Total FPS (H.264)	• 1080p: 40 channels, 1050 FPS • 3M: 40 channels, 600 FPS • 5M: 40 channels, 440 FPS • 4K: 32 channels, 320 FPS
Suggested Maximum IP Cameras and Total FPS (H.265)	• 1080p: 40 channels, 1200 FPS • 3M: 40 channels, 1120 FPS • 5M: 40 channels, 600 FPS • 4K: 40 channels, 480 FPS

Central Management System

Provides a single interface to manage and monitor multiple Synology NAS

VPN Server

Maximum Connections	8

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 Cord X 1
- RJ-45 LAN Cable X 2

Optional Accessories

- DDR4 ECC SODIMM: D4ES03-8G/D4ES03-16G
- Expansion Unit: DX525
- 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
- 25GbE Network Interface Card: E25G30-F2
- 10GbE Network Interface Card: E10G30-F2/E10G30-T2/E10G18-T1

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.