Synology®

Datasheet

DiskStation

# DS1825neo+

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DiskStation

# DS1825neo+

## Flexible High-Capacity Data Management Platform

The DS1825neo+ 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 DS1825neo+ 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 2,235/1,574 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 432 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 DS1825neo+ 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 **2,235/1,574 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 **432 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]
- Features 4 GB of DDR4 SODIMM non-ECC memory, expandable up to 32 GB ECC
- 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]

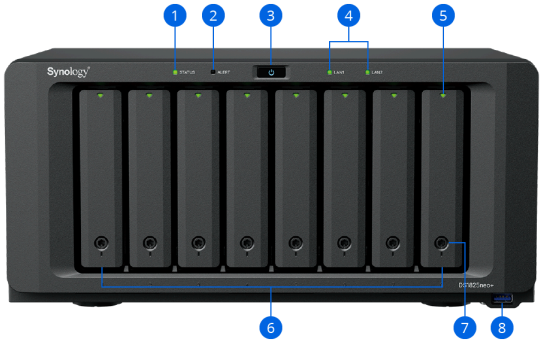
- 8,700+ supported camera models
- ONVIF support for a broader selection of cameras
- Private, subscription-free storage of recordings
- Access through web browsers, desktop clients, and mobile apps
- Event-based rules to trigger specific actions
- Email, SMS, and push notification options
- Simultaneous recording to the cloud with **C2 Backup for Surveillance** for an extra layer of data protection and more convenient sharing[14]

## Notes:

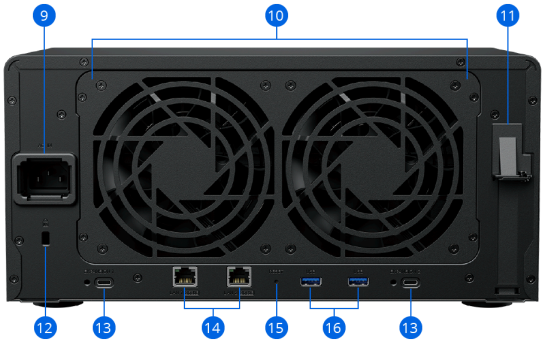
1. Performance figures obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration. See performance charts for more information.
2. For the most up-to-date list of compatible NICs, please check our compatibility list.
3. Synology DX525 expansion unit sold separately.
4. Raw capacity calculated using 24 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.
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

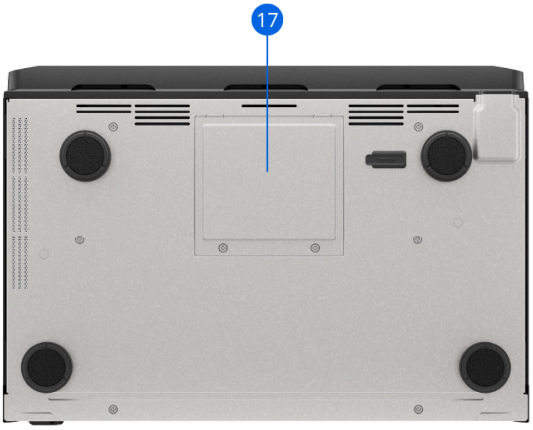
### Front




### Rear




### Bottom




| No. | Name | No. | Name |
|---|---|---|---|
| 1. | Status indicator | 10. | Fans |
| 2. | Alert indicator | 11. | PCI Express expansion slot |
| 3. | Power button and indicator | 12. | Kensington security slot |
| 4. | LAN indicators | 13. | Expansion port |
| 5. | Drive status indicator | 14. | 2.5GbE RJ-45 ports |
| 6. | Drive trays | 15. | Reset button |
| 7. | Drive tray lock | 16. | USB 3.2 Gen 1 ports |
| 8. | USB 3.2 Gen 1 port | 17. | Memory slot |

| | | | |
|---|---|---|---|
| 9. | Power port | | |

# Technical Specifications

## Hardware

| CPU | |
|---|---|
| CPU Model | AMD Ryzen V1500B |
| CPU Quantity | 1 |
| CPU Cores | 4 |
| CPU Threads | 8 |
| CPU Architecture | 64-bit |
| CPU Frequency | 2.2 GHz |
| Hardware Encryption Engine | Yes |

| Memory | |
|---|---|
| System Memory | 4 GB DDR4 non-ECC SODIMM |
| Memory Module Pre-installed | 4 GB (4 GB × 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 × 3.5" SATA HDD or 2.5" SATA SSD<br>2 × M.2 2280 NVMe SSD |
| Maximum Drive Bays with Expansion Unit | 18 (DX525 × 2) |
| Hot Swappable Drive | Yes |
| Notes | • The hot swappable drive feature is not supported by M.2 SSD slots.<br>• Synology only guarantees full functionality, reliability, and performance for compatible drives. Please consult our compatibility list before purchasing hard drives. For more details, please refer to this article.<br>• SSD cache can be enabled with select compatible SSD. See the compatibility list for model-specific support and details. SSDs are sold separately. |

| External Ports | |
|---|---|
| RJ-45 2.5GbE LAN Port | 2 |
| USB 3.2 Gen 1 Port | 3 |
| Expansion Port | 2 |
| Expansion Port Type | USB Type-C |

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

| Appearance | |
|---|---|
| Size (Height x Width x Depth) | 166 mm × 343 mm × 243 mm |
| Weight | 6 kg |

| Others | |
|---|---|
| System Fan | 120 mm × 120 mm × 2 pcs |
| Power Supply Unit / Adapter | 250 watts |
| 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) |
| Operating Humidity | 8% to 80% RH |
| Storage 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)<br>• 108 TB |
| Maximum Internal Volume Number | 32 |
| SSD Read/Write Cache (Determining cache size) | Yes |
| Storage Efficiency | v |
| Supported RAID Type | • Synology Hybrid RAID<br>• Basic<br>• JBOD<br>• RAID 0<br>• RAID 1<br>• RAID 5<br>• RAID 6<br>• RAID 10 |

| | |
|---|---|
| Notes | • Volumes over 108 TB require 32 GB of memory or more.<br>• Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.<br>• 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.<br>• 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)<br>• Storage efficiency helps reduce storage space consumption through deduplication and compression. For more information about this feature and its support requirements, please refer to this article. |

## File System

| | |
|---|---|
| Internal Drives | Btrfs,ext4 |
| External Drives | • Btrfs<br>• ext4<br>• ext3<br>• FAT32<br>• NTFS<br>• HFS+<br>• exFAT |

## File Services

| | |
|---|---|
| File Protocol | • SMB<br>• AFP<br>• NFS<br>• FTP<br>• WebDAV<br>• Rsync |
| Maximum Number of SMB Connections (FSCT-Based) | 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 vSphere | ESXi 8.0 U2, ESXi 8.0 U1, ESXi 8.0, ESXi 7.0 U3, ESXi 7.0 U2, ESXi 7.0 U1, ESXi 7.0, ESXi 6.7 U3, ESXi 6.7 U2, ESXi 6.7 U1, ESXi 6.7, ESXi 6.5 U3, ESXi 6.5 U2, ESXi 6.5 U1, ESXi 6.5 |
| Citrix XenServer | XenServer 8.4, XenServer 8, Citrix Hypervisor 8.2 LTSR CU1 |
| OpenStack | Cinder |

## 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<br>• Firefox<br>• Edge<br>• 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 AI Console | |
|---|---|
| Centralize AI management with flexible configurations for AI model integration, user access control, data privacy, usage policies, and resource allocation | |
| Third-Party AI Model Integration | v |
| Maximum De-Identification Rate | 60 words per second |
| Notes | • De-identification performance measurement: Filters for Credit Card Numbers, IBAN, Individual Taxpayer Identification Number, SSN, and Names applied to a 4,355-word English text.<br>• To enable de-identification, your device must have at least 8 GB of memory and Container Manager installed. |

| 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

Synchronize data across multiple sites for fast and efficient multi-site teamwork. Powered by Synology C2 Storage, Hybrid Share requires purchase of a monthly or annual subscription

## 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 Snapshots per LUN | 64 |
| Maximum Snapshots per System | 4,096 |
| Maximum Replication Tasks for Shared Folders | 32 |
| Maximum Replication Tasks for LUNs | 16 |
| Maximum Replication Tasks per System | 32 |

| 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) |
| Maximum IP Cameras and Total FPS (H.264) | • 1080p: 40 channels, 1050 FPS<br>• 3M: 40 channels, 600 FPS<br>• 5M: 40 channels, 440 FPS<br>• 4K: 32 channels, 320 FPS |
| Maximum IP Cameras and Total FPS (H.265) | • 1080p: 40 channels, 1200 FPS<br>• 3M: 40 channels, 1120 FPS<br>• 5M: 40 channels, 600 FPS<br>• 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<br>• Accessory Pack X 1<br>• AC Power Cord X 1<br>• RJ-45 LAN Cable X 2 |

## Optional Accessories

- DDR4 non-ECC SODIMM: D4NS01-4G
- DDR4 ECC SODIMM: D4ES04-4G/D4ES03-8G/D4ES03-16G
- Expansion Units: 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 & SNV5400 Series
- 25GbE Network Interface Card: E25G30-F2
- 10GbE Network Interface Card: E10G30-F2/E10G30-T2/E10G18-T1

| | |
|---|---|
| Notes | For multi-module memory configurations, all modules must be identical and share the same model number. Check the Product Manual of your Synology product for recommended memory configurations. |

## 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)<br>• 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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