Synology®

Datasheet

DiskStation

DS1525neo+

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DiskStation

DS1525neo+

Flexible All-Purpose Data Management Platform

Synology DS1525neo+ is a versatile 5-bay storage solution that scales with your needs, with support for storage expansion,[1] 10GbE networking,[2] and SSD caching[3]. Built-in 2.5GbE networking provides excellent networking performance out of the box. 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 1,181/1,116 MB/s sequential read/write throughput[4] supports stable data transfers
- **Fast Networking**
  Built-in 2.5GbE ports for fast connectivity out of the box with support for 10GbE
- **Versatile Network Storage**
  Leverage built-in file and photo management, data protection, virtualization, and surveillance solutions
- **Capacity Expansion**
  Add 10 extra drive bays for up to 360 TB[5] of raw storage with two DX525 expansion unit[1]
- **Extendable Product Support**
  Backed by Synology's 3-year limited hardware warranty, extendable to 5 years in select markets[6,7]

Versatile Storage for Any Purpose

The DS1525neo+ offers intuitive and comprehensive file management, media organization, and backup options right out of the box. Its capable performance, compact size, and versatile configuration options make it ideal for IT enthusiasts, creative professionals, and businesses of various sizes, from small firms to large enterprises as an edge device for branch offices or retail locations.

- Up to **1,181 MB/s sequential read** and **1,116 MB/s sequential write** performance[4] enables fast file sharing, syncing, streaming, and backup for multiple users
- **Two 2.5GbE ports** offer fast networking, with Link Aggregation supporting failover and load balancing capabilities
- Support for **10GbE networking** via **10GbE RJ-45 Network Upgrade Module** provides versatility and futureproofing
- Supports **5 × 2.5" SATA SSD** and **3.5" SATA HDD.**[8] Synology hard drives and SSDs are designed to integrate seamlessly with Synology systems, delivering exceptional reliability
- **Expandable to 15 drives** for **up to 360 TB of raw storage** with **two Synology DX525 expansion units**[1]
- Features 4 GB of DDR4 SODIMM non-ECC memory, expandable up to 32 GB ECC
- Two built-in M.2 slots provide **SSD caching**[3] 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**[9], 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

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**[10] 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**[11] 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

Reliable Virtualization and Containerization

Leverage your Synology system as **virtual machine storage**, and alternative container or VM host, with full certification for VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, and OpenStack environments.

- **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** for testing, sandboxing, and emergency recovery purposes 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]

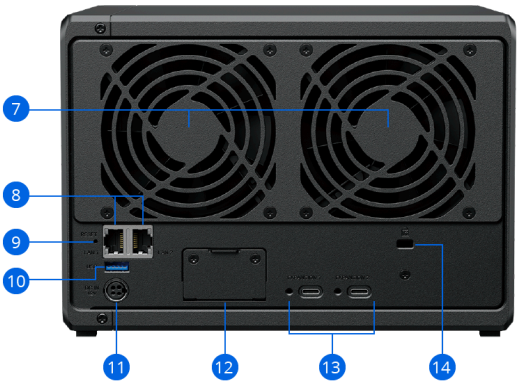
Notes:

1. DS1525neo+ supports up to 15 drives with two Synology DX525 expansion units, sold separately.
2. One 10GbE RJ-45 port can be added to the DS1525neo+ with Synology E10G22-T1-Mini Network Upgrade Module.
3. Synology Enterprise SATA SSDs or M.2 NVMe SSDs enable SSD caching. M.2 NVMe SSDs can also create storage pools. Drives sold separately.
4. 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.
5. Raw capacity calculated using 24 TB drives. Usable storage capacity may vary depending on drives used and RAID configuration.
6. 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.
7. 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.
8. Compatible drives are mandatory. Please consult our compatibility list before purchasing hard drives. For more details, please refer to this article.
9. Synology Active Insight includes three free licenses.
10. 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
11. Hybrid Share requires purchase of an annual or monthly subscription. A free trial is available for each newly registered device.
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.

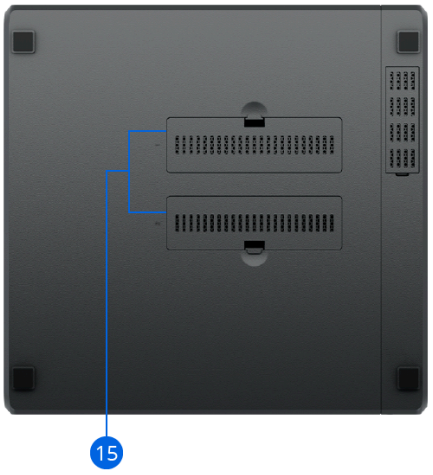
Hardware Overview

Front

Rear



Bottom



No.	Name	No.	Name
1.	Status indicator	9.	Reset button
2.	Drive status indicators	10.	USB 3.2 Gen 1 port
3.	Drive tray lock	11.	Power port
4.	USB 3.2 Gen 1 port	12.	Network upgrade slot
5.	Power button and indicator	13.	Expansion ports
6.	Drive trays	14.	Kensington security slot
7.	Fans	15.	M.2 NVMe SSD slots

8.	2.5GbE RJ-45 ports		

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	5 × 3.5" SATA HDD or 2.5" SATA SSD 2 × M.2 2280 NVMe SSD
Maximum Drive Bays with Expansion Unit	15 (DX525 × 2)
Hot Swappable Drive	Yes
Notes	• The hot swappable drive feature is not supported by M.2 SSD slots. • 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. • 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	2
Expansion Port	2
Expansion Port Type	USB Type-C

PCIe	
PCIe Expansion	1 x Gen3 ×2 network upgrade slot

Appearance	
Size (Height x Width x Depth)	166 mm × 230 mm × 223 mm
Weight	2.67 kg

Others	
System Fan	92 mm × 92 mm × 2 pcs
Power Supply Unit / Adapter	120 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) • 108 TB
Maximum Internal Volume Number	32
SSD Read/Write Cache (Determining cache size)	Yes
Storage Efficiency	v
Supported RAID Type	• Synology Hybrid RAID • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10

Notes	• Volumes over 108 TB require 32 GB of memory or more. • Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration. • 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. • 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) • 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 • ext4 • ext3 • FAT32 • NTFS • HFS+ • exFAT

File Services

File Protocol	• SMB • AFP • NFS • FTP • WebDAV • Rsync
Maximum Number of SMB Connections (FSCT-Based)	40
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 • 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 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	40 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. • 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	80
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

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	80

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	100

Surveillance Station	
Default Licenses	2 (Additional cameras require purchase of licenses)
Maximum IP Cameras and Total FPS (H.264)	• 1080p: 40 channels, 1050 FPS • 3M: 40 channels, 600 FPS • 5M: 30 channels, 360 FPS • 4K: 20 channels, 200 FPS
Maximum IP Cameras and Total FPS (H.265)	• 1080p: 40 channels, 1200 FPS • 3M: 40 channels, 1000 FPS • 5M: 40 channels, 600 FPS • 4K: 30 channels, 300 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 Adapter X 1
- AC Power Cord X 1
- 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
- 10GbE Network Upgrade Module: E10G22-T1-Mini

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) • 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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