

RackStation RS2825RP+



Brand: Synology

Product Code: RS2825RP+

Availability: 9

Weight: 17.30kg

Dimensions: 656.50mm x 482.00mm x
132.30mm

Price: 268,900.00EGP

Short Description

Over 3,519/1,790 MB/s sequential read/write

Built-in 10GbE with 10/25GbE expansion options

Scales up to 28 drives

Description

Versatile and scalable storage

[Download Datasheet](#)



Flexible storage with redundancy

Over 3,519/1,790 MB/s seq. read/write², built-in 10GbE, and up to 560 TB raw storage after expansion^{3,4}



Flexible configuration

Add 12 extra drive bays, 10/25GbE ports, and SSD cache volumes whenever needed



Versatile applications

Back up endpoints, manage up to 90 IP cameras⁵, or safely sync and share files across sites

Built for reliability

Redundant power

Redundant power supplies ensure maximum server uptime by preventing single-point power failures.

High-availability

Pair two identical devices with Synology High Availability and enable automatic minute-level failover between both devices in the event one server fails. [Learn more](#)

Network redundancy and load balancing

Built-in 1x 10GbE and 2x 1GbE ports can be bonded with Link Aggregation to enable automatic network failover and load balancing.



Accommodates future expansion

The RS2825RP+ can be flexibly configured to meet evolving needs through faster networking, local SSD cache, or increased storage.

Improve I/O or add redundancy with 10GbE or 25GbE SFP+/SFP28 networking, or 1GbE/10GbE Ethernet (RJ-45) networking.

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Reduce latency and increase IOPS in HDD arrays with the performance boost of SSD caching.

Expand to 28 drive bays with one RX1225RP expansion unit.



25GbE

10GbE

E25G30-F2

E10G30-T2

Intuitive storage for on-site and remote teams

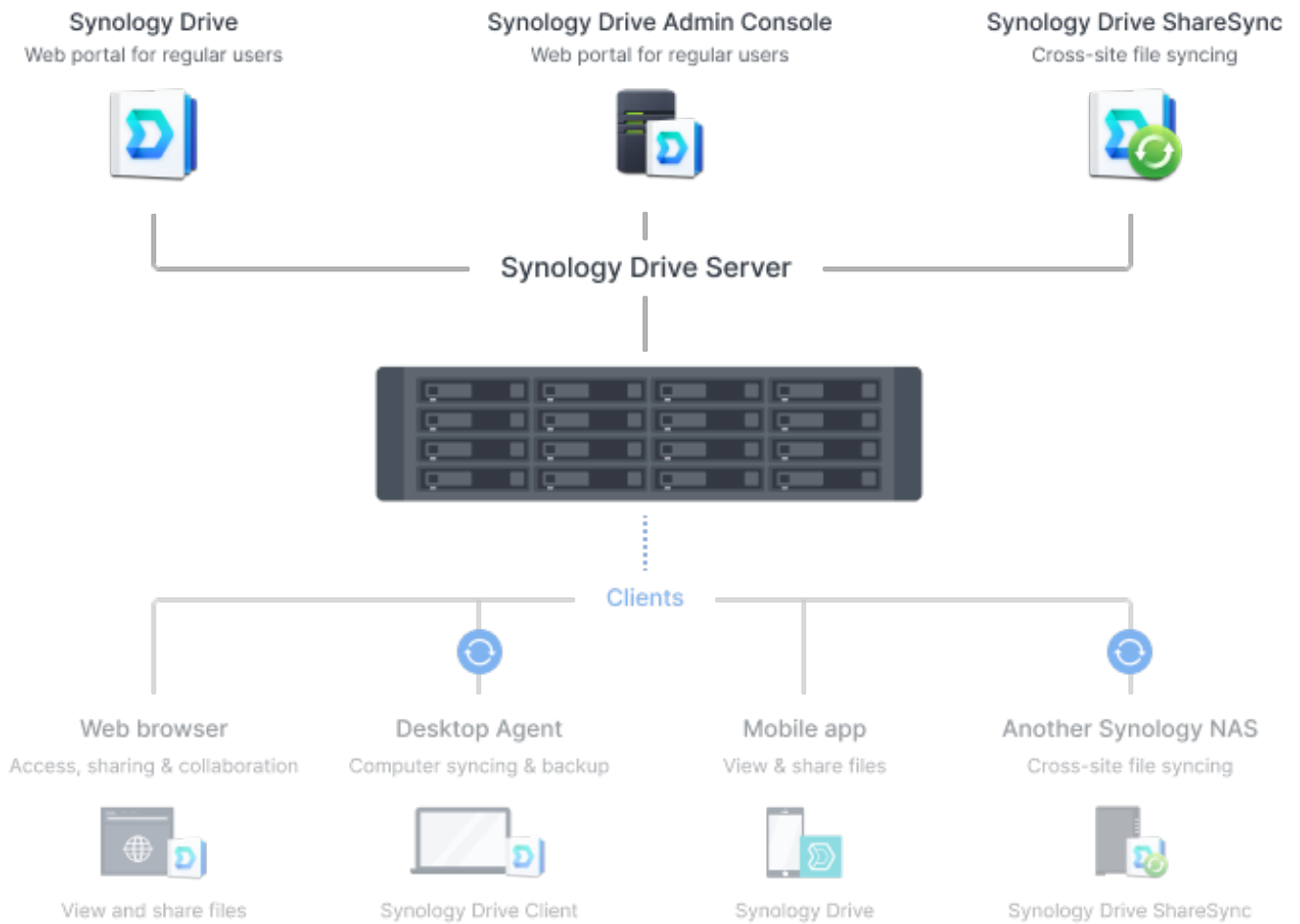
Provide secure and convenient cross-platform file access, sharing, and synchronization across multiple locations.

A secure private cloud solution for enterprise collaboration

Empower your entire organization with streamlined access, sharing, and syncing of data from any location. Establish granular control over file and folder access and sharing permissions. Maintain a comprehensive audit trail of file activities and track changes to file share settings with detailed records. [Learn more](#)

Access personal and shared data from mobile apps, desktop clients, web browsers, or another Synology system. Any changes you make are automatically synced to other devices as soon as they are connected.

Enhance workplace collaboration with Synology's productivity solutions. Create, edit, and share documents across teams in real time. Host an on-premises mail server to provide web-based email access while maintaining full data ownership. Additionally, stay connected through secure one-on-one chats, public channels, encrypted private channels, and group conversations. [Learn more](#)



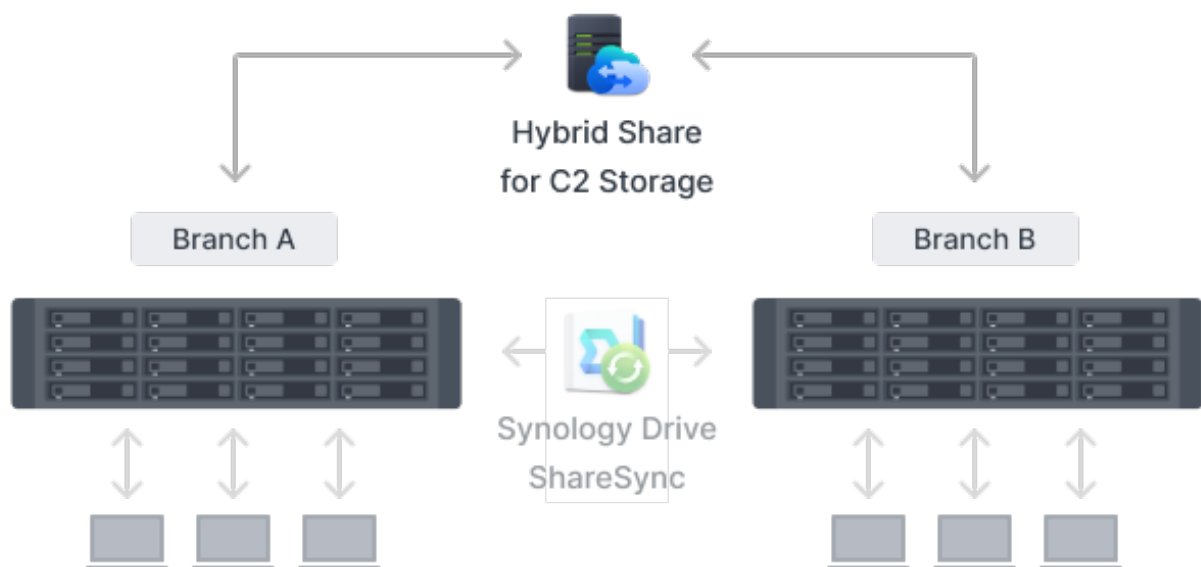
Efficient multi-site synchronization

Empower global workflows with high-speed access to data from anywhere in your network. Our hybrid cloud solution caches frequently used files locally for rapid access, while less frequently accessed data is stored in the cloud, reducing your on-site storage requirements.

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Automate site-to-site data synchronization for better team workflows. Options for one-way or two-way syncing keeps files and folders up-to-date across every data site. [Learn more](#)

Connect seamlessly to public cloud services including Amazon S3, BackBlaze B2, Dropbox, Google Cloud Storage, Microsoft Azure, and OpenStack Swift. Multiple protocol support, client-side encryption, and customizable sync and bandwidth controls enable efficient storage management across various platforms. [Learn more](#)

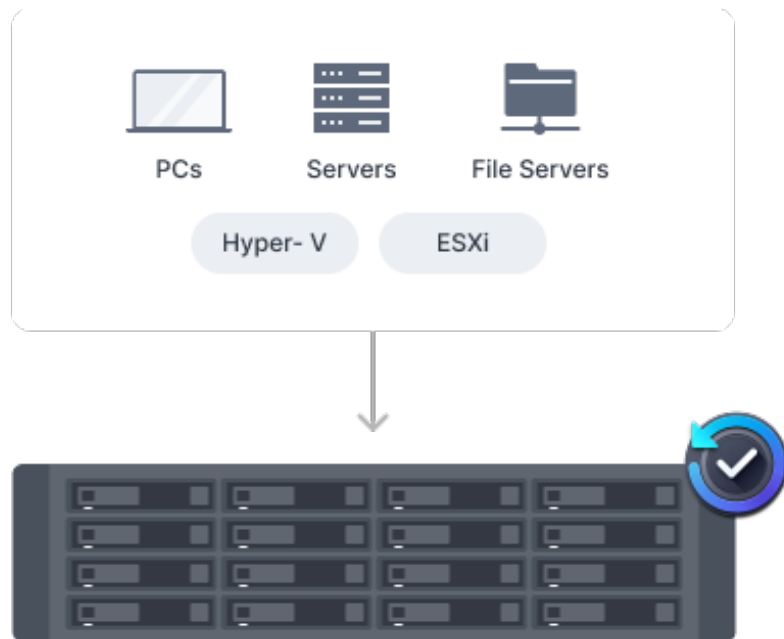


Comprehensive backup solutions

Securely back up a wide range of systems including Windows, Mac, and Linux endpoints, VMware® and Hyper-V® virtual machines, and Synology servers. Expand protection to physical servers running Windows or Linux, as well as storage solutions such as Nutanix Files, NetApp ONTAP, and Windows Server with VSS (Volume Shadow Copy Service). Built-in deduplication technology optimizes storage efficiency, while multi-versioning capabilities provide flexible restoration options.

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Centralize backups of Microsoft 365 and Google Workspace data to protect cloud data from accidents and simplify compliance with data retention policies. Schedulable backups, flexible file versioning, and block-level deduplication ensure flexibility and storage and bandwidth savings.

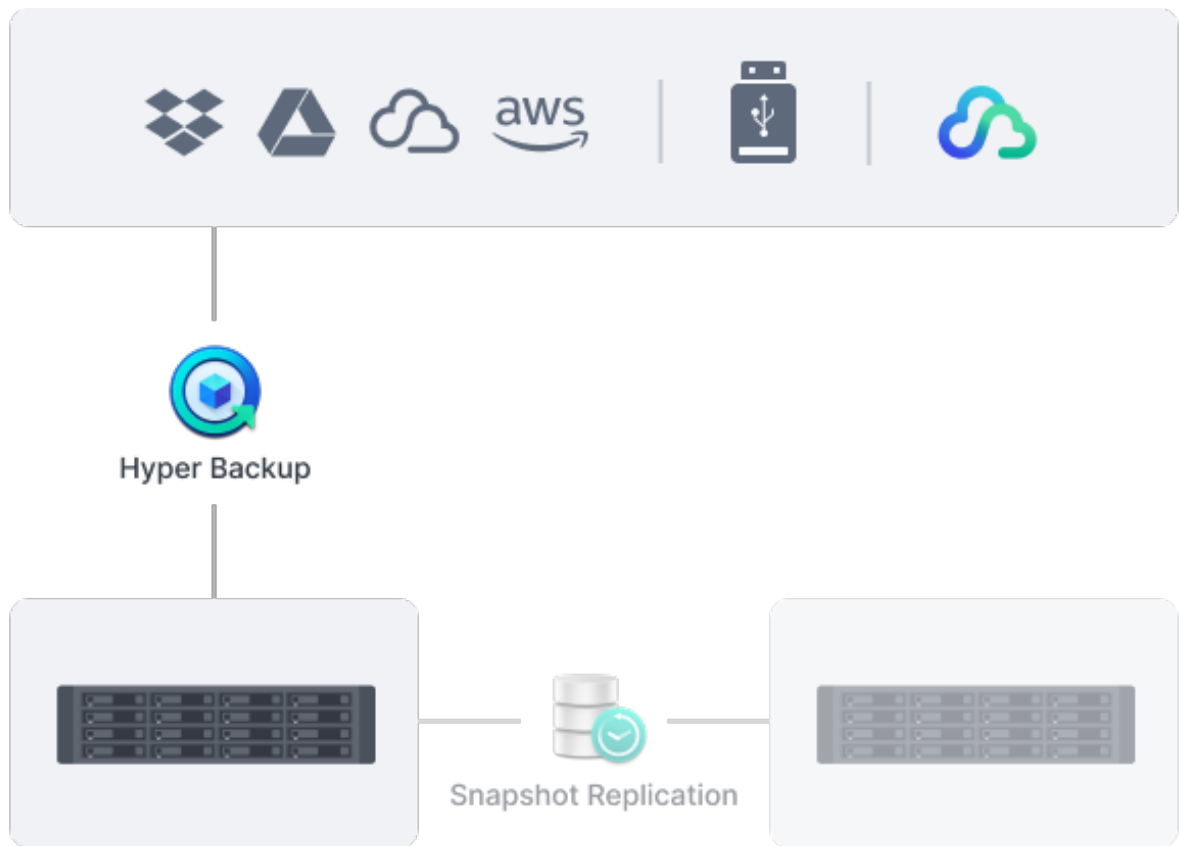


Advanced data protection and recovery

Back up entire systems or all data, applications, and configurations to a wide range of storage destinations, including

Back up entire systems or all data, applications, and configurations to a wide range of storage destinations, including [Synology C2 Storage](#)⁹. In case of data loss, quickly restore complete systems through bare-metal recovery or retrieve individual files as needed. Advanced features including automated scheduling, granular access controls, end-to-end encryption, data deduplication, and multi-version retention empower you to create the optimal backup plan for your data deployment. [Learn more](#)

Safeguard critical LUNs and shared folders with automated immutable snapshots backed by custom retention policies. Built-in support for offsite replication further ensures robust business continuity. [Learn more](#)



Surveillance

Protecting your business has never been easier, with centralized management, support for over 8,700 IP camera models, and remote monitoring and playback. Synology's scalable video management system provides all the tools you need for live monitoring, investigation, management, and backup.¹⁰[Learn more](#)

Secure your surveillance footage with robust cloud backup that supports end-to-end encryption. Our cloud-based surveillance backup solution safeguards your Surveillance Station recordings, allowing you to access, view, share, and download footage through a convenient web portal. Ensure your data remains available even if your on-premises system is compromised.[Learn more](#)

Centralized monitoring and management

Monitor and manage your Synology fleet from a central interface, on-prem or in the cloud.



Central Management System

Manage Synology servers from a central console using group policies, task delegation, batch updates, and more.

[Learn more](#)



Active Insight

Monitor your global Synology fleet's performance, backup status, login activity, and more with the power of the cloud.^{[12](#)}

[Learn more](#)

Performance backed by Synology drives

Designed for Synology systems, Synology drives deliver consistent performance and unmatched reliability for your deployments.⁴

HDD

[Enterprise Series 3.5" SATA Plus Series 3.5" SATA](#)

SSD

[Enterprise Series 2.5" SATA Enterprise Series M.2 NVMe](#)

Hardware Specifications

Hardware Specifications

CPU	CPU Model	AMD Ryzen V1780B
	CPU Quantity	1
	CPU Core	4
	CPU Architecture	64-bit
	CPU Frequency	3.35 (base) / 3.6 (turbo) GHz
	Hardware Encryption Engine	

Memory	System Memory	8 GB DDR4 ECC UDIMM
	Memory Module Pre-installed	8 GB (8 GB x 1)
	Total Memory Slots	2
	Maximum Memory Capacity	32 GB (16 GB x 2)
	Notes	

- Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility

and stability have been strictly verified with the same benchmark to ensure identical performance.

- 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.
- 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.

Storage	Drive Bays	16	
	Maximum Drive Bays with Expansion Unit	28 (RX1225RP x 1)	
	Drive Type	(See all supported drives)	• 3.5" SATA HDD • 2.5" SATA SSD
	Hot Swappable Drive*		
	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	2	
	RJ-45 10GbE LAN Port	1	
	USB 3.2 Gen 1 Port	2	
	Expansion Port	1	
	Expansion Port Type	Mini-SAS HD	
	Notes		This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes.
PCIe	PCIe Expansion	1 x Gen3 x8 slot (x4 link)	
Appearance	Form Factor (RU)	3U	
	Size (Height x Width x Depth)	132.3 mm x 482 mm x 656.5 mm	

Others	Weight	17.3 kg
	Rack Installation Support*	4-post 19" rack (Synology Rail Kit - RKS-02)
	Notes	The rail kit is sold separately
	System Fan	80 mm x 80 mm x 3 pcs
	Fan Speed Mode	• Full-Speed Mode • Cool Mode • Quiet Mode
	Easy Replacement System Fan	
	Power Recovery	
	Noise Level*	49.6 dB(A)
	Scheduled Power On / Off	
	Wake on LAN / WAN	
	Power Supply Unit / Adapter	550 watts
	Redundant Power Supply	
	AC Input Power Voltage	100 V to 240 V AC
	Power Frequency	50/60 Hz, Single Phase
	Power Consumption*	134.48 watts (Access)
		50.81 watts (HDD Hibernation)
	British Thermal Unit	459.17 BTU/hr (Access)
		173.49 BTU/hr (HDD Hibernation)
	Notes	• For more information on how power consumption is measured, refer to this article. • Noise testing was conducted with the Synology system fully installed with Synology SATA SSDs and in an idle state. Two G.R.A.S. type 40AE microphones were placed at a 1 m distance from the front and rear of the device. Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%.
	Temperature	
	Operating Temperature	0°C to 35°C (32°F to 95°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
Certification	• FCC • CE • BSMI • VCCI • RCM • UKCA • EAC • CCC • UL	
Warranty	3-year hardware warranty, extendable to 5 years with EW202 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.
Environment	RoHS Compliant	
Packaging Content	• Main Unit X 1 • Accessory Pack X 1 • AC Power Cord X 2	
Optional Accessories	• DDR4 ECC UDIMM: D4EU02-8G/D4EU02-16G • Expansion Units: RX1225RP • Enterprise Series 3.5" SATA HDD: HAT5300 Series • Plus Series 3.5" SATA HDD: HAT3300 Series • Enterprise Series 2.5" SATA SSD: SAT5200 Series • M.2 SSD & 10GbE Combo Adapter Card: E10M20-T1 • M.2 SSD Adapter Card: M2D20 • 25GbE Network Interface Card: E25G30-F2 • 10GbE Network Interface Card: E10G30-F2/E10G30-T2/E10G18-T1 • Rail Kit Sliding: RKS-02	
	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.

software specs

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)	
	SSD TRIM	
	Supported RAID Type	• Synology Hybrid RAID • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10
	RAID Migration	• Basic to RAID 1 • Basic to RAID 5 • RAID 1 to RAID 5 • RAID 5 to RAID 6
	Volume Expansion with Larger HDDs	• Synology Hybrid RAID • RAID 1 • RAID 5 • RAID 6 • RAID 10
	Volume Expansion by Adding a HDD	• Synology Hybrid RAID • JBOD • RAID 5 • RAID 6
	Global Hot Spare Supported RAID Type	• Synology Hybrid RAID • 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.

[File System](#)

Internal Drives
External Drives

- Btrfs
- Btrfs
- ext4
- ext3
- FAT32
- NTFS
- HFS+
- exFAT
- SMB
- AFP
- NFS
- FTP
- WebDAV
- Rsync

[File Services](#)

File Protocol

Maximum Number of 560
SMB Connections
(FSCT-Based)
Windows Access
Control List (ACL)
Integration
NFS Kerberos
Authentication
Notes

- Connection value of this model is tested with Synology SATA HDD fully populated and all onboard network ports
- Models with expandable memory are tested with the maximum supported quantity installed.
- SMB performance was evaluated using Microsoft File Server Capacity Tool (FSCT) version 1.3, with the following configuration:

- Test workload: HomeFolder scenario provided by the FSCT tool
- Test duration: 600 seconds
- Domain controller & FSCT controller: Windows Server 2022
- FSCT clients: 8 × Windows 10 machines
- SMB feature: Directory leasing enabled

Account & Shared Folder	Maximum Local User Accounts	1,024
	Maximum Local Groups	256
	Maximum Shared Folder	256
	Maximum Shared Folder Sync Tasks	12
Hybrid Share	Maximum Hybrid Share Folders	10
Hyper Backup	Folder and Package Backup	
	Entire System Backup	
High Availability	Synology High Availability	
Log Center	Syslog Events per Second	1,000
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
	Microsoft Hyper-V	Windows Server 2022
	Citrix XenServer	XenServer 8, Citrix Hypervisor 8.2 LTSR CU1
	OpenStack	Cinder
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, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ????????, ???, ???, ????, ????

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

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

Synology AI Console Third-Party AI Model Integration
 Maximum De- 500 words per second
 Identification Rate
 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 Chat](#) Maximum Number of 300
 Users
 Notes

- 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 the maximum supported quantity installed.

Download Station Maximum Concurrent 80
 Download Tasks
[SAN Manager](#) Maximum iSCSI 64

	Target Number	
	Maximum LUN	128
	LUN Clone/Snapshot,	
	Windows ODX	
Synology MailPlus / MailPlus Server	Free Email Accounts	5 (Additional accounts require purchase of licenses)
	Maximum Number of Users	1,100
	Notes	• The suggested maximum number of users is based on the following workload: 20% of users with a 20,000 item mailbox randomly performing actions and receiving 240 emails per day, and 80% of users receiving 20 emails per day. Learn more • Models with SSD support are tested with a single SSD volume. • Models with expandable memory are tested with the maximum supported quantity installed. Learn more about memory requirements. • Operating in high-availability mode will incur additional overhead. • Features enabled during evaluation: anti-spam, anti-virus, DNSBL, greylist, content scanning, and full-text search (English).
Media Server	DLNA Compliance	
Synology Photos	Facial Recognition	
	Object Recognition	
Snapshot Replication	Maximum Snapshots per Shared Folder	256
	Maximum of System Snapshots	4,096
Surveillance Station	Default Licenses	2 (Additional cameras require purchase of licenses)
	Maximum IP Cameras and Total FPS (H.264)	• 1080p: 90 channels, 2250 FPS • 3M: 90 channels, 1500 FPS • 5M: 90 channels, 900 FPS • 4K: 55 channels, 550 FPS
	Maximum IP	• 1080p: 90 channels, 2700 FPS

Cameras and Total
FPS (H.265)

- 3M: 90 channels, 2250 FPS
- 5M: 90 channels, 1500 FPS
- 4K: 90 channels, 1080 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 number of video channels that can be viewed simultaneously is double the maximum number of cameras for the same codec and resolution.

[Synology Drive](#)

Maximum Number of 1,000
Users

Maximum Number of 15,000,000 (applies to files indexed or
Hosted Files hosted by [Synology Drive](#). For file access through other standard protocols, refer to the File Services section above)

Notes

- The suggested maximum number of users is based on the following workload: 20% of users randomly perform file operations (upload, download, move, and delete), and 80% of users are logged in but idle. [Learn more](#)
- Models with SSD support are tested with a single SSD volume.
- Models with expandable memory are tested with the maximum supported quantity installed.
- Exceeding the recommended numbers above will not block application operations, but may

result in longer response time.

- Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

[Synology Office](#)

Maximum Number of 900

Users

Notes

- The suggested maximum number of users is based on the following workload: 20% of users are executing random actions at an average of 30-second intervals, and 80% of users are logged in and viewing a file. [Learn more](#)
- Models with SSD support are tested with a single SSD volume.
- Models with expandable memory are tested with the maximum supported quantity installed.
- 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

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

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

8 (including 1 Free License)

Notes

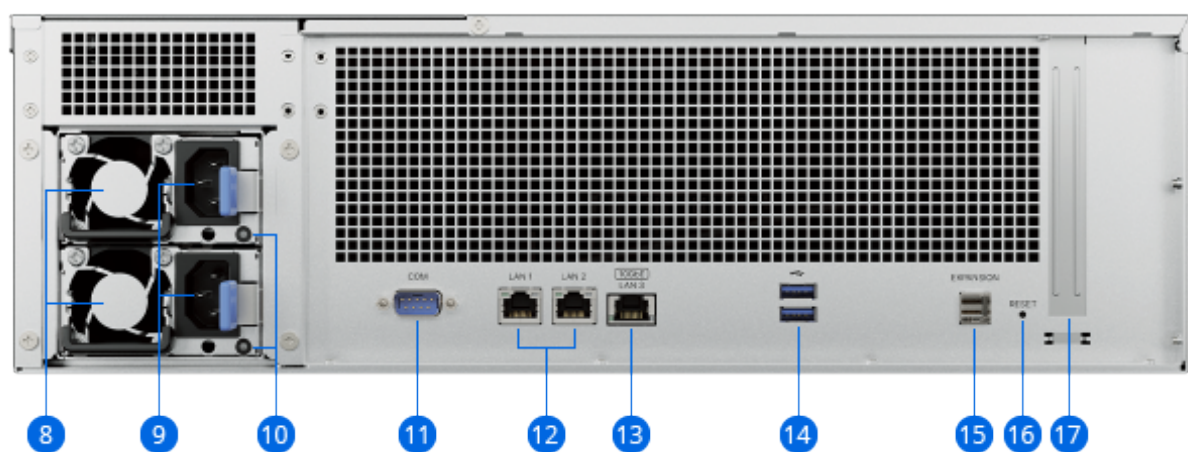
The specifications vary depending on system configuration and memory size.

[VPN Server](#)

Maximum
Connections

12

Hardware Overview



- 1Power button and indicator
- 2Status indicator
- 3Alert indicator
- 4Alarm silence button

- *5Drive status indicator*
- *6Drive trays*
- *7Rail kit release tabs*
- *8PSU fans*
- *9Power ports*
- *10PSU indicators*
- *11Console port*
- *121GbE RJ-45 ports*
- *1310GbE RJ-45 port*
- *14USB 3.2 Gen 1 ports*
- *15Expansion port*
- *16Reset button*
- *17PCI Express expansion slot*

Product Gallery



