

Datasheet



RackStation

RS826+

Synology



Versatile 1U Storage for Edge and Remote Sites

Synology RackStation RS826+ is a 4-bay rackmount system enclosed in a compact 1U chassis. Running the powerful Synology DiskStation Manager DSM operating system, it is ideal for data backup, sharing, and synchronization. Its small size, stable performance, and storage scalability make it suitable for branch offices and small and medium-sized businesses with growing data management needs.

- **Solid Performance**
Over 2,000/1,300 MB/s sequential read/write throughput¹ supports office-wide applications
- **On-Demand Expansion**
Scale up to 8 drive bays with one Synology RX426 Expansion Unit²
- **Versatile Networking**
Four 1GbE RJ45 ports with expansion via 10/25GbE NICs and Fibre Channel adapters³
- **Storage Tiering**
Automatically offload inactive data to lower-cost tiers to optimize storage ROI and preserve high-performance storage for active workloads
- **Comprehensive Backups**
Protect your IT infrastructure with license-free solutions for backup, replication, and recovery

Robust Storage Server for Office Applications

The 4-bay 1U RS826+ is designed to help small and medium-sized businesses and branch offices consolidate their data management onto one system. Built-in data protection solutions and easy hardware expandability make it an excellent option for all scenarios requiring dependable and cost-efficient data storage.

- **Stable performance:** Over **2,000/1,300 MB/s sequential read/write** performance supports fast file sharing, syncing, and backup for multiple users¹
- **Flexible storage:** Support for all-flash and hybrid configurations allows users to add SATA SSDs as storage volumes or as read/write cache⁴ to accelerate HDD volumes
- **Supports NVMe acceleration:** Compatible M.2 NVMe drives can be used via an add-in card to create cache without occupying drive bays⁴
- **Versatile networking:** Four built-in 1GbE RJ45 ports can be supplemented with 10/25GbE NICs and Fibre Channel adapters via the PCIe 3.0 expansion slot³
- **Scalable capacity:** Simple expansion to up to 8 bays is available as needed with a Synology [RX426 Expansion Unit](#)²
- **Non-disruptive management:** Hot-swappable drive trays and online volume management allow for storage management without downtime

Intelligent Storage Optimization

Synology Tiering intelligently manages data across performance and capacity tiers to **maximize storage efficiency** and **improve storage economics** by automatically placing colder data on cost-effective tiers. The RS826+ can be configured as part of a hot or cold storage tier depending on deployment requirements. Key capabilities include:

- Automatic relocation of infrequently accessed data from local high-performance storage to a remote cold tier
- Tiering policies based on last access time, available capacity, or a defined schedule
- Full data accessibility with frequently used files automatically restored to the hot tier
- Centralized dashboard for monitoring folder status, data distribution, capacity usage, and tiering activity

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, rapid data protection and restoration with version control, ensuring that all shared folders and LUNs on your Synology system remain safe and available
- **Hyper Backup** protects your Synology system with full-system backups and backups of shared folders and configurations to multiple destinations with deduplication, integrity checks, compression, and versioning
- **Synology Active Backup Suite** lets you consolidate protection of Windows clients and servers, Linux endpoints, Synology systems, VMware® and Hyper-V® VMs, Microsoft 365 and Google Workspace, maximizing storage efficiency with data deduplication technology
- **C2 Storage for Hyper Backup** offers a dedicated secure public cloud destination for Synology NAS backup data⁵

Advanced Data Security Measures

Synology offers a multi-layered approach to data security that protects against physical breaches, malicious attacks, and accidental deletions.

- Protect sensitive data against physical data breaches with **full-volume encryption**
- Safeguard your data against accidental or malicious deletion with **WORM-powered immutable snapshots** and **WriteOnce shared folders**
- **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

Collaboration in a Secure Cloud, Assisted by AI

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

- **Synology Office Suite AI** accelerates workflows by embedding generative capabilities directly into productivity apps to assist with drafting, summarizing, and analyzing data. It ensures data privacy through a centralized management console that locally masks sensitive information before it reaches third-party AI providers
- **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 Office** enables users to collaborate on documents, spreadsheets, and presentation slides in real time, with support for universal file formats and unlimited file versioning for easy restoration
- **Synology Chat** brings teams together with one-on-one conversations, group channels, and encrypted private channels
- **Synology MailPlus⁶** provides a secure, reliable, and private email server with advanced admin tools to simplify troubleshooting and increase server security
- **Synology Calendar** helps teams keep track of priorities with convenient calendar sharing and scheduling
- **Synology Contacts** enables organizations to manage and update address books with minimal effort
- **Synology Hybrid Share⁵** 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 and Secure Virtualization and Containerization

Leverage your Synology system as virtual machine storage, VM backup server, and alternative container for 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 transfer
- **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 virtualized versions of DSM⁷

Build a Scalable and Centralized Surveillance System

Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR) for single site surveillance, or it can serve as a central storage repository and management platform for multiple sites.⁸

- 17,000+ 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
- Manage up to hundreds of sites centrally using [Synology Centralized Management System \(CMS\)](#)

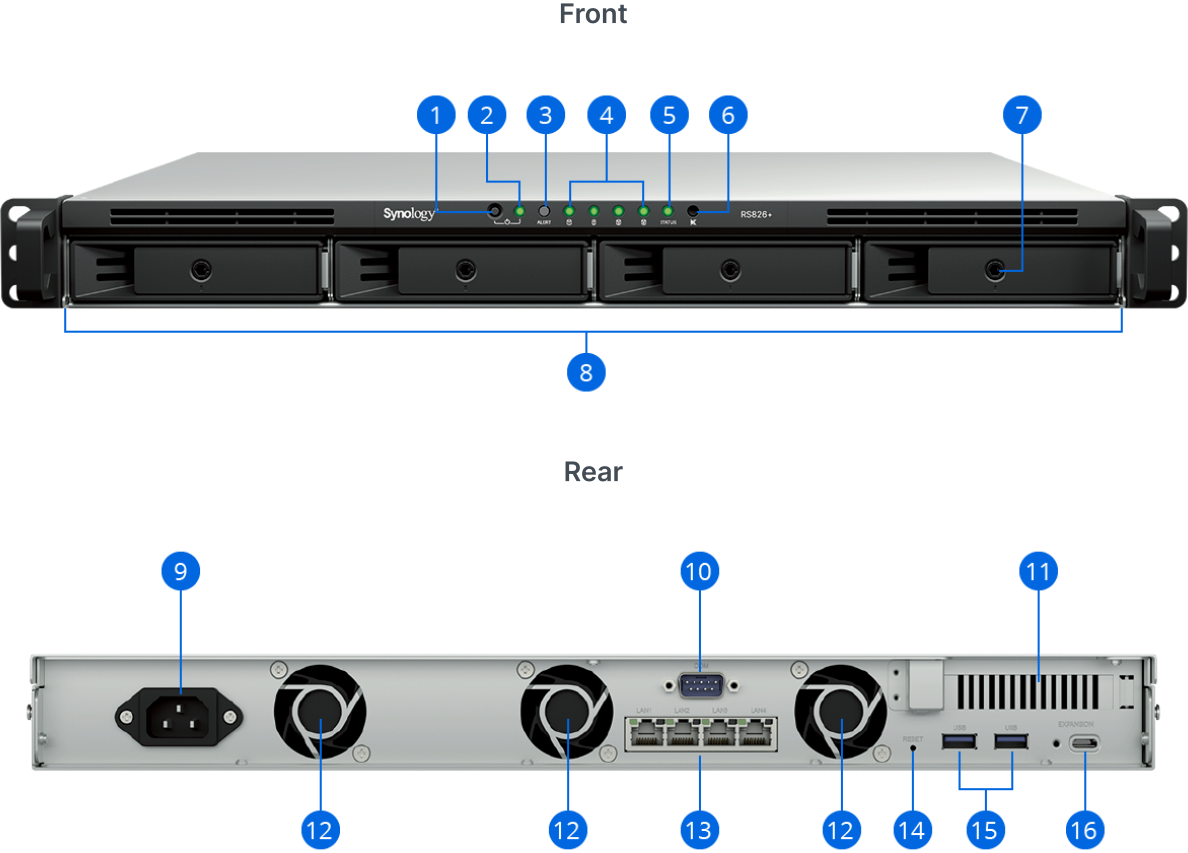
Backed by Synology's 3-Year Limited Warranty

Maximize your return on investment with the **comprehensive hardware replacement** and **premium technical support services** offered under Synology's three-year limited warranty.⁹

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. RS826+ supports up to 8 drives with a [Synology RX426](#) Expansion Unit, sold separately.
3. For the complete and most up-to-date list of compatible NICs, HBAs, and other accessories, please check our [compatibility list](#).
4. SSD cache can be enabled using [Synology Enterprise Series 2.5" SATA SSDs](#) in the drive bays, or via [compatible](#) M.2 SSDs in the internal slots to avoid occupying drive bays. SSDs are sold separately.
5. 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.
6. Five MailPlus email accounts are included. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. [Learn more](#)
7. 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](#).
8. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#).
9. 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.

Hardware Overview



No.	Name	No.	Name
1.	Power button	9.	Power port
2.	Power indicator	10.	Console port
3.	Alert indicator	11.	PCI Express expansion slot
4.	Drive status indicators	12.	Fans
5.	Alarm silence button	13.	1GbE RJ-45 ports
6.	Status indicator	14.	Reset button
7.	Drive locks	15.	USB 3.2 Gen 1 ports
8.	Drive trays	16.	Expansion 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 ECC SODIMM
Memory Module Pre-installed	4 GB (4 GB × 1)
Total Memory Slots	2
Maximum Memory Capacity	32 GB (16 GB × 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	4 × 3.5" SATA HDD or 2.5" SATA SSD
Maximum Drive Bays with Expansion Unit	8 (RX426 × 1)
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. - 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 1GbE LAN Port	4
USB 3.2 Gen 1 Port	2
Expansion Port	1
Expansion Port Type	USB Type-C

PCIe

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

Form Factor (RU)	1U
Size (Height x Width x Depth)	44 mm × 480 mm × 492.6 mm
Weight	6.4 kg
Rack Installation Support	4-post 19" rack (Synology Rail Kit - RKM114/RKS-02)
Notes	The rail kit is sold separately

Others

System Fan	40 mm × 40 mm × 3 pcs
Power Supply Unit / Adapter	150 watts
AC Input Power Voltage	100 V to 240 V AC
Power Frequency	50/60 Hz, Single Phase

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
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. • 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
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)	170
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
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

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	170 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	310
Maximum Number of Hosted Files	5,000,000 (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

300

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	370

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: 40 channels, 440 FPS • 4K: 32 channels, 320 FPS
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
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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 Cord X 1

Optional Accessories

- DDR4 ECC SODIMM: [D4ES04-4G/D4ES03-8G/D4ES03-16G](#)
- Expansion Units: [RX426](#)
- 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/E10G30-T1](#)
- Rail Kit Sliding: [RKS-02](#)
- Rail Kit Mounted: [RKM114*](#)

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 [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.

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