

Datasheet



RackStation

RS2825RP+

Synology

RS2825RP+



Reliable Data Management Solution for Business Workloads

The RS2825RP+ (redundant power) is a versatile and cost-effective 3U 16-bay storage system for central data storage and sharing, endpoint and server backup, surveillance management, and other business applications. Designed for small businesses and remote office deployments, this system features over 3,519/1,790 MB/s sequential read/write performance¹ and up to 560 TB of raw storage², providing ample throughput and storage capacity to power business workloads.

- **Solid Performance**
Up to 3,519/1,790 MB/s sequential read/write throughput¹ supports office-wide applications
- **On-Demand Expansion**
Scale up to 28 drive bays and 560 TB of raw storage² with a Synology RX1225RP expansion unit³
- **Comprehensive Backups**
Protect your IT infrastructure with license-free solutions for backup, replication, and recovery
- **Availability Safeguards**
Hot-swappable drives, online volume expansion, dual power supplies, and high-availability clustering ensure reliability

Robust Storage Server for Office Applications

The 3U 16-bay rackmount RS2825RP+ is designed to help small and medium-sized businesses consolidate their data management onto one system. Built-in data protection solutions and extensive customization options make it an excellent option for all scenarios requiring dependable and cost-efficient data storage.

- Up to **3,519/1,790 MB/s sequential read/write** performance supports large data transfer volumes and enables fast file sharing, syncing, and backup for multiple users
- Supports **16 × 2.5" SATA SSD** and **3.5" SATA HDD**,⁴ **expandable to 28 drives** for up to **560 TB of raw storage** with a Synology **RX1225RP** expansion unit³
- All-flash and hybrid storage support provides flexibility for the use of **SATA SSDs as storage volumes** or **as read/write cache** to speed up HDD volumes. Additionally, Synology **M.2 NVMe SSDs** can be used as cache drives with an optional add-in card⁵
- **One built-in 10GbE port** and **two Gigabit ports** can be supplemented with **additional 1/10/25GbE ports** for increased redundancy or bandwidth via the PCIe 3.0 expansion slot⁶
- **Hot-swappable drive trays** and **online volume management** allow for **storage management without downtime**, while hot-swappable **dual power supplies** keep services running in case of issues with one power source

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

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 data⁷

Collaboration and Communication Hub for Teams

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 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 MailPlus⁸** 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 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 systems⁹

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 DSM¹⁰

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.¹¹

- 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
- Manage up to hundreds of sites centrally using [Surveillance Station Centralized Management System \(CMS\)](#)
- Simultaneous recording to the cloud with [C2 Backup for Surveillance](#) for an extra layer of data protection and more convenient sharing¹²

Notes:

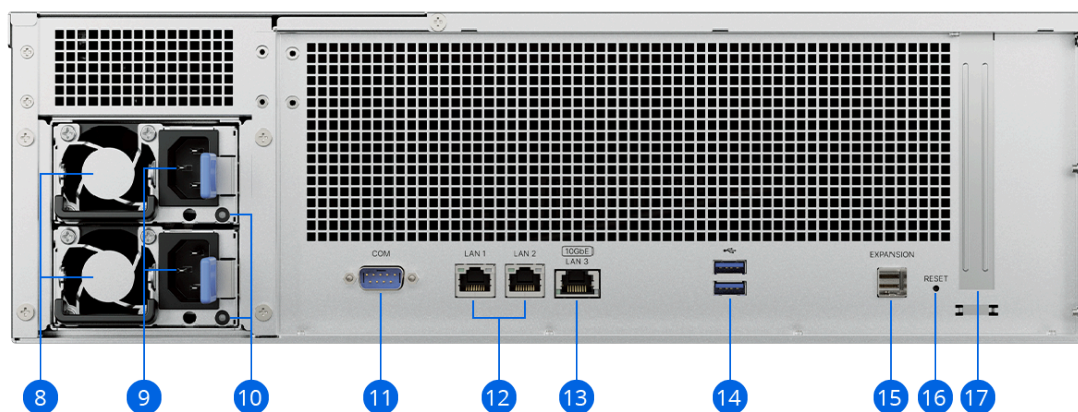
1. Performance figures obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration. See [performance charts](#) for more information.
2. Raw capacity calculated using 20 TB drives. Usable storage capacity may vary depending on drives used and RAID configuration.
3. [Synology RX1225RP](#) expansion unit sold separately.
4. Compatible drives are mandatory. Please consult our [compatibility list](#) before purchasing hard drives. For more details, please refer to [this article](#).
5. Synology Enterprise SATA SSDs or M.2 NVMe SSDs enable SSD caching. M.2 NVMe SSDs can be installed with M2D20 or E10M20-T1 add-in cards. Drives sold separately.
6. For the most up-to-date list of compatible NICs, please check our [compatibility list](#).
7. Synology Active Insight includes three free licenses. Additional licenses can be added with the purchase of an annual [subscription](#).
8. 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](#)
9. Hybrid Share requires purchase of an annual or monthly [subscription](#). A free trial is available for each newly registered device.
10. 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](#).
11. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#)
12. 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.	Power button and indicator	10.	PSU indicators
2.	Status indicator	11.	Console port
3.	Alert indicator	12.	1GbE RJ-45 ports
4.	Alarm silence button	13.	10GbE RJ-45 port
5.	Drive status indicator	14.	USB 3.2 Gen 1 ports
6.	Drive trays	15.	Expansion port

7.	Rail kit release tabs	16.	Reset button
8.	PSU fans	17.	PCI Express expansion slot
9.	Power ports		

Technical Specifications

Hardware

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	Yes

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	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	16
Maximum Drive Bays with Expansion Unit	28 (RX1225RP x 1)
Drive Type	<ul style="list-style-type: none"> • 3.5" SATA HDD • 2.5" SATA 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 1GbE LAN Port	2
RJ-45 10GbE LAN Port	1
USB 3.2 Gen 1 Port	2
Expansion Port	1

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
Weight	17.3 kg
Rack Installation Support	4-post 19" rack (Synology Rail Kit - RKS-02)
Notes	The rail kit is sold separately

Others	
System Fan	80 mm x 80 mm x 32 mm x 3 pcs
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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	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)	560
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	12

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

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	500 words per second
Notes	<ul style="list-style-type: none">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	1,000
Maximum Number of Hosted Files	15,000,000 (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 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	300
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Synology Office

Maximum Number of Users	900
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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	1,100

Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
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Suggested Maximum IP Cameras and Total FPS (H.264)	<ul style="list-style-type: none">• 1080p: 90 channels, 2250 FPS• 3M: 90 channels, 1500 FPS• 5M: 90 channels, 900 FPS• 4K: 55 channels, 550 FPS
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Suggested Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none">• 1080p: 90 channels, 2700 FPS• 3M: 90 channels, 2250 FPS• 5M: 90 channels, 1500 FPS• 4K: 90 channels, 1080 FPS
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Central Management System

Provides a single interface to manage and monitor multiple Synology NAS

VPN Server

Maximum Connections

12

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 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.

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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