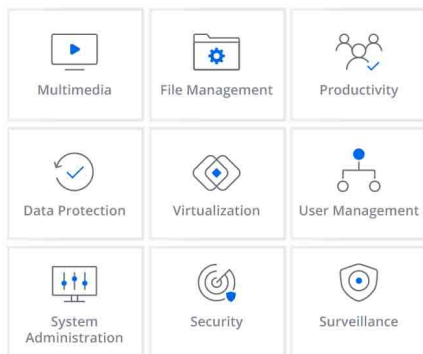# Synology®

RackStation
RS422+

Compact and Versatile Storage for Streamlined Data Management

Synology RackStation RS422+ is a 4-bay rackmount NAS enclosed in a compact 1U chassis. Powered by the powerful Synology DiskStation Manager (DSM) operating system, it offers an affordable all-in-one solution for data sharing, synchronization, and backup to small businesses and home lab owners looking to meet their daily data management needs.
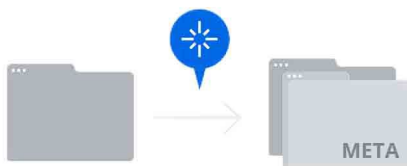
Highlights

- **Dependable Performance**
  Over 601/516 MB/s sequential read/write throughput supports stable data transfers[1]
- **Compact Deployment**
  Space-saving design with a depth of just 327.5 mm when server handles are installed
- **Redundant Connectivity**
  Dual 1GbE ports support network failover and load balancing
- **Easy Network Upgrade**
  Plug-and-play network upgrade modules make it easy to add 10GbE RJ-45 ports

Full-Featured Operating System

RS422+ runs the Synology DSM operating system, offering dependable storage, efficient productivity solutions, extensive backup options, and solid security.

Next-Generation File System

Btrfs is a modern file system designed to safeguard data integrity through metadata mirroring, file self-healing, and fast snapshot replication.

All-In-One Storage Platform for Home and Office

RS422+ is designed to support small deployments requiring an out-of-the-box data management solution.

- Over **590 MB/s sequential read** and **521 MB/s sequential write** performance[1] support common file management, data backup, and surveillance applications
- Two built-in **Gigabit Ethernet ports** can be bonded with **Link Aggregation** to provide redundant connectivity and load balancing, while fast **10GbE RJ-45 connectivity** can be added with a plug-and-play network upgrade module
- The **compact chassis** is designed to fit in a 2-post or wall mount rack, ensuring flexibility of deployment in space-limited environments

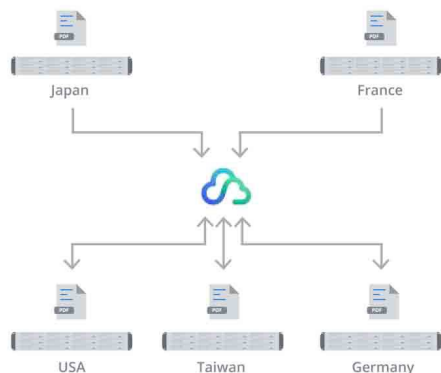## Optimized for Data Protection and Integrity

Safeguard your data with the **powerful storage management features** of Synology DSM, built on the advanced **Btrfs** file system.

- **Advanced snapshot technology** provides schedulable and near-instantaneous data protection for shared folders and LUNs
- **File and folder-level data restoration** enables recovery of specific files or folders
- **Configurable storage quotas** simplify management of available space with the option to specify storage limits for shared folders
- **File self-healing** detects and recovers corrupted files using mirrored metadata and RAID configurations
- **Inline compression** minimizes storage consumption and extends the life of drives by compressing data before it is written to the storage pool

File Sharing and Synchronization for Hybrid Teams

The compactness and ease of installation of the RS422+ make it suitable for deployment as an **edge server** to provide convenient and effective file access, sharing, and synchronization across different locations.

- **Wide network protocol support** ensures seamless file sharing across Windows, Mac, and Linux platforms, while **compatibility with Windows AD and LDAP** enables easy integration into any existing network environment
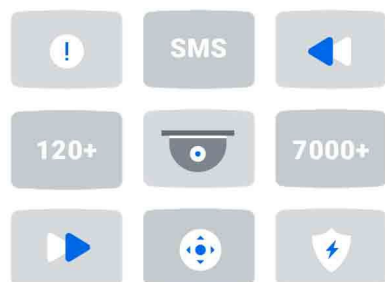
Keeping Teams Connected

With Hybrid Share-enabled folders, remote teams retain full access to the most up-to-date files while benefiting from reduced local storage footprint and bandwidth usage.[3]

Synology Backup Solutions

DSM backup solutions are designed to be low-maintenance and efficient, delivering low RPO and RTO targets and offering a large selection of backup destinations for a variety of workloads.

Round-The-Clock Security

Protect your premises with Synology's reliable and intuitive video management system (VMS) solution. Surveillance Station combines intelligent monitoring and robust management features for flexible deployment scenarios.

- **Hybrid Share** combines reliable on-premises storage and efficient syncing of shared folders in the cloud to enable seamless cross-site synchronization and local file access at LAN speed[2]
- **Synology Drive** is a private cloud file management solution that enables remote data access, synchronization, on-demand file restoration, and backup via handy desktop and mobile applications
- **Cloud Sync** keeps your Dropbox, Google Drive, Microsoft OneDrive, Baidu, and Box storage in sync with your Synology server
- Seamless file sharing capability is combined with a high level of security, including HTTPS support, a built-in firewall, and multiple IP and account intrusion auto-blocking mechanisms

Comprehensive Data and Uptime Protection Tools

Native backup solutions help maintain high system availability and facilitate recovery in the event of a disaster or major outage.

- **Active Backup Suite** consolidates backup tasks and offers rapid restoration of Windows and Linux endpoints, VMs, Synology servers, and SaaS applications
- **Snapshot Replication** creates point-in-time copies of shared folders and LUNs to protect them from accidental modifications or ransomware incidents
- **Hyper Backup** protects your NAS by backing up data and configurations to multiple destinations with efficiency delivered by built-in deduplication, integrity checks, compression, and versioning
- **C2 Storage for Hyper Backup** offers a dedicated secure public cloud destination for Synology NAS backup data[2]

Private Video Surveillance

Synology Surveillance Station transforms RS422+ into a powerful Network Video Recorder with support for up to 40 IP cameras,[3] ideal for retail stores or small businesses looking to conveniently and affordably secure their premises.

- **8,300+ supported camera models**
- ONVIF support prevents vendor lock-in
- Private, subscription-free storage of recordings
- Access through web browsers, desktop clients, or mobile apps
- Event-based rules to trigger specific actions
- Email, SMS, or push notification options

Hardware Overview

RS422+ (Front)

RS422+ (Rear)

1	Power Indicator	2	Power Button	3	Alert Indicator	4	Drive Status Indicators
5	Mute Button	6	Status Indicator	7	Drive Tray Locks	8	Drive Trays
9	Fans	10	Power Port	11	1GbE RJ-45 Ports	12	Console Port
13	USB 3.2 Gen 1 Port	14	Reset Button	15	Network Upgrade Slot		

Technical Specifications

Hardware

CPU	AMD Ryzen™ R1600 dual-core (4-threads) 2.6 GHz, max boost clock up to 3.1 GHz
Hardware encryption engine	AES-NI
Memory	2 GB DDR4 ECC
Compatible drive types	• 4 x 3.5" SATA HDD or 2.5" SATA SSD (drives not included) • Synology only guarantees full functionality, reliability, and performance for Synology drives listed on the compatibility list[4]
Hot swappable drives	Yes
External ports	1 x USB 3.2 Gen 1 port
Form factor	Rackmount 1U
Size (HxWxD)	• 44 x 430.5 x 295.5 mm • 44 x 478 x 327.5 mm (with server handles)
Weight	4.38 kg
LAN ports	2 x 1GbE RJ-45
Wake on LAN/WAN	Yes
Network expansion	Supports E10G22-T1-Mini 10GbE RJ-45 Network Upgrade Module
Scheduled power on/off	Yes
System fans	3 x (40 x 40 x 20 mm)
AC input power voltage	100 V to 240 V AC
Power frequency	50/60 Hz, single phase
Operating environment	• Temperature: 0°C to 35°C (32°F to 95°F) • Relative humidity: 8% to 80% RH
Storage environment	• Temperature: -20°C to 60°C (-5°F to 140°F) • Relative humidity: 5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

General DSM Specifications

Networking protocols	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, and VPN (PPTP, OpenVPN™, L2TP)
File systems	• Internal: Btrfs, ext4 • External: Btrfs, ext4, ext3, FAT32, NTFS, HFS+, exFAT
Supported RAID types	Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, and RAID 10
Storage management	• Max. single volume size: 108 TB • Max. number of system snapshots: 65,536[5] • Max. number of internal volumes: 64
SSD cache	• Read/write cache support • 2.5" SATA SSD support
File sharing capabilities	• Max. number of local user accounts: 2,048 • Max. number of local groups: 256 • Max. number of shared folders: 512 • Max. number of concurrent SMB/NFS/AFP/FTP connections: 500
Privileges	Windows® Access Control List (ACL) and application privileges
Directory services	Connects with Windows® AD/LDAP servers enabling domain users to login via SMB/NFS/AFP/FTP/File Station using their existing credentials
Security	Firewall, shared folder encryption, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, and HTTPS (customizable cipher suite)
Supported browsers	Google Chrome®, Firefox®, Microsoft Edge®, Safari® 13 and later, and Safari (iOS 13.0 and later) on iPad, Chrome (Android™ 11.0 and later) on tablets
Interface languages	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, 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

File Server & Synchronization

Drive	Synchronizes files across Windows®, macOS®, Linux®, Android™, and iOS. The built-in cross-platform portal allows access to data anytime and anywhere • Max. number of hosted files: 500,000 • Max. number of concurrent connections for PC clients: 350
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	Efficiently synchronizes files across sites by keeping shared data on Synology C2 Storage and streaming files to Synology NAS worldwide on request. Frequently requested files are cached at each site for low-latency access
FTP Server	Supports bandwidth control for TCP connections, custom FTP passive port ranges, anonymous FTP, FTP over TLS/SSL and SFTP protocols, network booting with TFTP and PXE support, and transfer logs
Presto File Server[6]	Enables high-speed data transfer over WAN between Synology NAS and desktop platforms through the exclusive SITA technology
Cloud Sync	Offers one or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers, and Yandex Disk
Universal Search	Search through files, metadata, and more on your NAS. Integration with Windows Search and macOS Spotlight makes it easy to find files
Migration Assistant	Migrates data, system setting, and applications seamlessly from one Synology NAS to another to ensure maximum service availability

SAN Storage

SAN Manager	• Max. number of iSCSI targets: 128 • Max. number of LUNs: 256 • LUN clone/snapshot support

Data Protection & Backup Solutions

Hyper Backup	Supports local backup, network backup, and data backup to other devices, Synology NAS, and public clouds including C2 Storage
Backup tools	• DSM configuration backup, macOS® Time Machine® support, Synology Drive Client desktop application • Shared folder sync supports a maximum of 8 tasks

Snapshot Replication	• Max. number of snapshots for shared folders: 1,024 • Max. number of replications: 32
Synology High Availability	Reduces service downtime by combining two identical NAS into a high-availability cluster
Active Backup for Business	An all-in-one backup solution designed for heterogeneous business IT environments. It enables IT admins to remotely manage and protect PCs, servers, and VMs from one centralized console
Active Backup for Google Workspace	Supports backup and restoration of Google Workspace My Drive, Team Drive, Gmail, Contacts, and Calendar
Active Backup for Microsoft 365	Supports backup and restoration of Microsoft 365 OneDrive for Business, Outlook, Contacts, and Calendar

Productivity & Collaboration

Collaboration tools	Collaborate with instant messaging service Synology Chat, online documents editor Synology Office, and scheduling assistant Synology Calendar • Max. number of users for Chat: 100 • Max. number of users for Office: 200 • Calendar supports CalDAV and access via mobile devices
Note Station	A note taking platform that supports rich text, note organization and versioning, encryption, sharing, media embedding, and attachments

Surveillance

Surveillance Station[3]	Max. number of IP cameras: 40, for a total of 1,200 FPS at 720p (H.264)

Management & Administration

Synology Directory Server	Provides a flexible and cost-effective domain controller solution
Central Management System	Provides a single interface to manage and monitor multiple Synology NAS
VPN Server	• Max. number of connections: 40 • Supported VPN protocols: PPTP, OpenVPN™, L2DTP/IPSec
Active Insight	Monitor health statistics, login activity, and backup statuses for your Synology servers worldwide, and receive notifications and advice from our centralized cloud-hosted management platform
Storage Analyzer	Displays volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, large files, most recently modified files, and least recently accessed files
Antivirus Essential	Provides full system scans, scheduled scans, white list customization, and auto-update of virus definitions
Web Station	Enables hosting for up to 30 websites with support for PHP/MariaDB® and 3rd-party applications
Other packages	DNS Server, RADIUS Server, and Log Center

Others

iOS/Android™ applications	Synology Drive, Synology Secure SignIn, Synology Chat, Synology LiveCam, Synology Active Insight, DS cam, DS file, DS finder, and DS note
Other packages	Additional 3rd-party packages are available in the Package Center

Environment and Packaging

Environmental safety	RoHS compliant
Package contents	• 1 x RS422+ main unit • 1 x Accessory pack • 1 x AC power cord • 1 x Quick Installation Guide
Optional accessories[7]	• 3.5" SATA HDD: HAT5300 Series • 2.5" SATA SSD: SAT5200 Series • 10GbE Network Upgrade Module: E10G22-T1-Mini • Surveillance Device License Pack[3] • Synology Rail Kit: RKS-02, RKM114 • Extended Warranty: EW201, Extended Warranty Plus[8]
Warranty	3 years[9]

Note: Specifications are subject to change without notice. Please refer to the model's **specifications page** for the most up to date information.

1. Performance figures are 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. C2 Storage for Hyper Backup and Hybrid Share requires purchase of an eligible annual or monthly subscription. A free trial is available for each newly registered

device.

3. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. **Learn more**
4. Check our **compatibility list** for supported drives.
5. System snapshots include snapshots taken by SAN Manager and Snapshot Replication. Availability of these packages varies by model.
6. Presto File Server license can be purchased separately through the application.
7. Please refer to our **compatibility list** for the latest optional accessories list.
8. Up to 5 years of warranty are available as an additional bundle with Extended Warranty Plus or Extended Warranty EW201, both 2-year Extended Warranty service add-ons available in select regions. Check availability for **Extended Warranty Plus** or **Extended Warranty EW201**.
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.