



RackStation

# RS2423+ RS2423RP+



## Versatile Storage Solution for Business Workloads

The RS2423+ and RS2423RP+ (redundant power) are versatile and cost-effective 2U 12-bay storage servers for central data storage and sharing, endpoint and server backup, surveillance management, and other business applications. With over 3,500/1,700 MB/s sequential read/write performance, up to 216 TB of raw storage,<sup>1</sup> and the option to boost I/O speeds through SSD caching, the RS2423+ and RS2423RP+ provide flexible storage with strong built-in data protection capabilities.

## Highlights

- **Solid Performance**  
Over 3,500/1,700 MB/s sequential read/write throughput<sup>2</sup> supports office-wide applications
- **On-Demand Expansion**  
Scale up to 24 drive bays and 432 TB of raw storage with one Synology RX1223RP Expansion Unit<sup>3</sup>
- **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 (RS2423RP+), and high-availability clustering help keep services online

## Robust Storage Server for Office Applications

The RS2423+ and RS2423RP+ are 2U 12-bay rackmount servers 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.

- Over **3,500/1,700 MB/s** sequential read/write performance supports large data transfer volumes and enables fast file sharing, syncing, and backup for multiple users
- All-flash and hybrid storage support means that users can add **SATA SSDs as storage volumes or read/write cache** to speed up HDD volumes, or add-in card<sup>4</sup>
- Built-in **10GbE connectivity and two Gigabit ports** can be supplemented with additional **1/10/25GbE** ports thanks to a PCIe 3.0 expansion slot<sup>5</sup>
- Simple capacity **expansion to 432 TB** of raw storage is available whenever needed with a Synology [RX1223RP](#) Expansion Unit<sup>3</sup>
- **Hot-swappable drive trays** and **online volume management** allow for **storage management without downtime**, while optional hot-swappable **dual power** supplies (RS2423RP+) 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 online when disaster strikes
- [Snapshot Replication](#) provides schedulable, near-instantaneous data protection with version control, ensuring that all shared folders and LUNs on your Synology system remain safe and available<sup>1</sup>
- [Hyper Backup](#) protects your Synology system by backing up shared folders and configurations to multiple destinations, including the secure [C2 Storage](#) public cloud,<sup>6</sup> with efficiency delivered by built-in 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, and SaaS applications, maximizing storage efficiency with data deduplication technology

## Collaboration and Communication Hub for Teams

Synology's [collaboration suite](#) provides a private cloud solution for on-site and remote workers to concurrently edit documents, share files, manage emails, send instant messages, and more.

- [Synology Drive](#) supports file sharing, remote data access, cross-device and cross-site synchronization, on-demand file restoration, and backup
- The [Synology Office](#) extension lets users 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](#)<sup>7</sup> 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](#) 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 speeds<sup>7</sup>

## 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 transfers

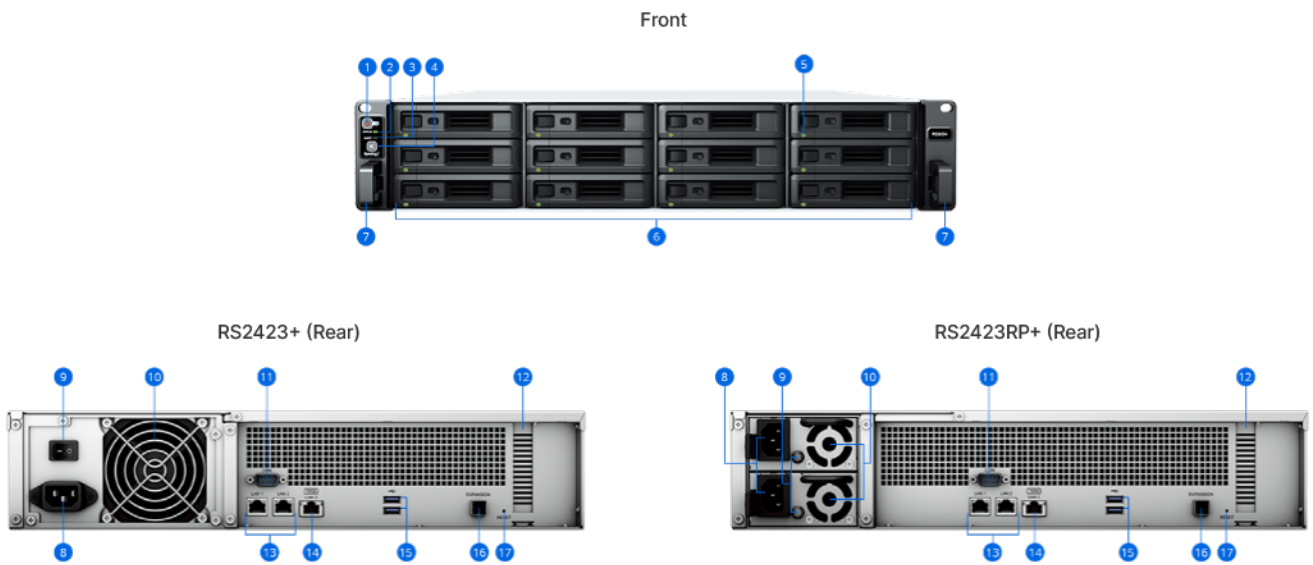
- **Host lightweight containers and VMs** for testing, sandboxing, and emergency recovery purposes with [Docker](#) and [Synology Virtual Machine Manager](#), a native hypervisor that supports Windows, Linux, and virtual versions of DSM<sup>8</sup>

## Private Video Surveillance

[Synology Surveillance Station](#) transforms any Synology system into a powerful network video recorder (NVR).

- 8,300+ 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 Surveillance](#) for an extra layer of data protection and more convenient sharing<sup>9</sup>

# Hardware Overview



|    |                            |    |                  |    |                       |    |                            |
|----|----------------------------|----|------------------|----|-----------------------|----|----------------------------|
| 1  | Power Button and Indicator | 2  | Status Indicator | 3  | Alert Indicator       | 4  | Mute Button                |
| 5  | Drive Status Indicators    | 6  | Drive Trays      | 7  | Rail Kit Release Tabs | 8  | Power Port(s)              |
| 9  | Power Switch(es)           | 10 | PSU Fans         | 11 | Console Port          | 12 | PCI Express Expansion Slot |
| 13 | 1GbE RJ-45 Ports           | 14 | 10GbE RJ-45 Port | 15 | USB 3.2 Gen 1 Ports   | 16 | Expansion Port             |
| 17 | Reset Button               |    |                  |    |                       |    |                            |

# Technical Specifications

## Hardware

|                            |                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CPU                        | AMD Ryzen V1780B                                                                                                                                                                                                                                                                                                                                                                                        |
| Memory                     | 8 GB DDR4 ECC UDIMM (expandable up to 32 GB)                                                                                                                                                                                                                                                                                                                                                            |
| Compatible drive types     | <ul style="list-style-type: none"><li>• 12 x 3.5" Synology SATA HDD or 2.5" Synology SATA SSD (drives not included)</li><li>• Synology only guarantees full functionality, reliability, and performance for Synology drives listed on the compatibility list. The use of non-validated components may limit certain functionality and result in data loss and system instability<sup>10</sup></li></ul> |
| Hot swappable drives       | Yes                                                                                                                                                                                                                                                                                                                                                                                                     |
| External ports             | <ul style="list-style-type: none"><li>• 2 x USB 3.2 Gen 1 ports</li><li>• 1 x Expansion port (Mini-SAS HD)</li></ul>                                                                                                                                                                                                                                                                                    |
| Form factor                | Rack mount                                                                                                                                                                                                                                                                                                                                                                                              |
| Size (HxWxD)               | <ul style="list-style-type: none"><li>• RS2423+: 88 × 482 × 552 (with server ears)</li><li>• RS2423RP+: 88 × 482 × 578 (with server ears)</li></ul>                                                                                                                                                                                                                                                     |
| Weight                     | <ul style="list-style-type: none"><li>• RS2423+: 11.5 kg</li><li>• RS2423RP+: 11.9 kg</li></ul>                                                                                                                                                                                                                                                                                                         |
| LAN ports                  | <ul style="list-style-type: none"><li>• 1 × 10GbE RJ-45</li><li>• 2 × 1GbE RJ-45</li></ul>                                                                                                                                                                                                                                                                                                              |
| Wake on LAN/WAN            | Yes (only on 1GbE ports)                                                                                                                                                                                                                                                                                                                                                                                |
| PCIe expansion             | <ul style="list-style-type: none"><li>• 1 × 8 width slot, Gen 3.0 ×4 lanes</li><li>• Supports network interface cards, M.2 SSD adapter cards, and combo cards<sup>5</sup></li></ul>                                                                                                                                                                                                                     |
| Scheduled power on/off     | Yes                                                                                                                                                                                                                                                                                                                                                                                                     |
| System fans                | 3 x (60 × 60 × 38 mm)                                                                                                                                                                                                                                                                                                                                                                                   |
| AC input power voltage     | 100 V to 240 V AC                                                                                                                                                                                                                                                                                                                                                                                       |
| Power frequency            | 50/60 Hz, single phase                                                                                                                                                                                                                                                                                                                                                                                  |
| Operating environment      | <ul style="list-style-type: none"><li>• Temperature: 0°C to 35°C (32°F to 95°F)</li><li>• Relative humidity: 8% to 80% RH</li></ul>                                                                                                                                                                                                                                                                     |
| Storage environment        | <ul style="list-style-type: none"><li>• Temperature: -20°C to 60°C (-5°F to 140°F)</li><li>• Relative humidity: 5% to 95% RH</li></ul>                                                                                                                                                                                                                                                                  |
| 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              | <ul style="list-style-type: none"><li>• Internal: Btrfs, ext4</li><li>• External: Btrfs, ext4, ext3, FAT32, NTFS, HFS+, exFAT</li></ul>                                                                                                                    |
| Supported RAID types      | Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, and RAID 10                                                                                                                                                                       |
| Storage management        | <ul style="list-style-type: none"><li>• Max. single volume size: 108 TB/200 TB<sup>11</sup></li><li>• Max. number of system snapshots: 65,536<sup>12</sup></li><li>• Max. number of internal volumes: 64</li></ul>                                         |
| SSD cache <sup>4</sup>    | <ul style="list-style-type: none"><li>• Read/write cache support</li><li>• M.2 NVMe and 2.5" SATA SSD support</li></ul>                                                                                                                                    |
| File sharing capabilities | <ul style="list-style-type: none"><li>• Max. number of local user accounts: 2,048</li><li>• Max. number of local groups: 256</li><li>• Max. number of shared folders: 512</li><li>• Max. number of concurrent SMB/NFS/AFP/FTP connections: 2,000</li></ul> |
| 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                                                                                                                    |
| Virtualization            | VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, OpenStack, and Kubernetes                                                                                                                                                                       |
| 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, ไทย, 日本語, 한국어, 繁體中文, 简体中文                                                                 |

# Packages and Applications

## File Server & Synchronization

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[Drive](#)  
[File Station](#)  
[Hybrid Share<sup>6</sup>](#)  
[Presto File Server<sup>13</sup>](#)  
[Cloud Sync](#)  
[Universal Search](#)  
[Migration Assistant](#)

## Multimedia

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[Synology Photos](#)  
[Video Station](#)  
[Audio Station](#)  
[iTunes® Server](#)

## SAN Storage

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[SAN Manager](#)

## Surveillance

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[Surveillance Station<sup>14</sup>](#)

## Data Protection & Backup Solutions

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[Hyper Backup](#)  
[Snapshot Replication](#)  
[Synology High Availability](#)  
[Active Backup for Business](#)  
[Active Backup for Google Workspace](#)  
[Active Backup for Microsoft 365](#)

## Office Productivity

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[Synology Office](#)  
[Synology Calendar](#)  
[Note Station](#)

## Management & Administration

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[Synology Directory Server](#)  
[Central Management System](#)  
[VPN Server](#)  
[Active Insight<sup>15</sup>](#)  
[Storage Analyzer](#)

[Antivirus Essential](#)  
[Web Station](#)  
[DNS Server](#)  
[RADIUS Server](#)  
[Log Center](#)

## Others

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iOS/Android™ applications



Scan the QR code to download  
the detailed Product Specification sheet

<https://sy.to/rs2423pdsQR>

# Environment and Packaging

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment safety                 | RoHS compliant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Package contents                   | <ul style="list-style-type: none"><li>• 1 x RS2423+/RS2423RP+ main unit</li><li>• 1 x Quick Installation Guide</li><li>• 1 x Accessory pack</li><li>• 1 x AC power cord (RS2423+) / 2 x AC power cord (RS2423RP+)</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Optional accessories <sup>16</sup> | <ul style="list-style-type: none"><li>• DDR4 ECC UDIMM: D4EU01-8G / D4EU01-16G</li><li>• Expansion Unit: RX1223RP</li><li>• 10GbE Network Interface Card: E10G21-F2 / E10G18-T2 / E10G18-T1</li><li>• 25GbE Network Interface Card: E25G21-F2</li><li>• M.2 SSD &amp; 10GbE Combo Adapter Card: E10M20-T1</li><li>• M.2 SSD Adapter Card: M2D20</li><li>• NVMe SSD: SNV3400/3500 Series</li><li>• 2.5" SATA SSD: SAT5200 Series</li><li>• 3.5" SATA HDD: HAT5300 Series</li><li>• Sliding Rail Kit: RKS-02</li><li>• MailPlus License Pack<sup>7</sup></li><li>• Surveillance Device License Pack<sup>14</sup></li><li>• Virtual DSM License Pack<sup>8</sup></li><li>• Extended Warranty: EW202, Extended Warranty Plus<sup>17</sup></li></ul> |
| Warranty                           | 3 years <sup>17,18</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

Note: Specifications are subject to change without notice. Please refer to the model's [specifications page](#) for the most up to date information.

1. Raw capacity. Usable storage capacity may vary depending on drives used and RAID configuration.
2. 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.
3. RS2423+/RS2423RP+ supports up to 24 drives with a [Synology RX1223RP](#) Expansion Unit, sold separately.
4. SSD cache can be enabled by using Synology SAT5200 Series 2.5" SATA SSD drives in standard drive bays or without occupying drive bays by installing Synology SNV3400 and SNV3500 Series M.2 NVMe SSD drives using M2D20 or E10M20-T1 adapter cards. Drives and adapter cards are sold separately.
5. For the most up-to-date list of compatible NICs and HBAs, please check our [compatibility list](#).
6. 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.
7. Five MailPlus email accounts are included. Additional email accounts can be added with the purchase of Synology MailPlus License Packs. [Learn more](#)
8. 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](#).
9. C2 Surveillance requires purchase of an eligible [annual subscription](#). Each additional channel requires a separate subscription. A free trial is available.
10. Check our [compatibility list](#) for supported drives.
11. Volumes up to 108 TB are supported with the default installed memory. Volumes up to 200 TB can be created if the memory is upgraded to 32 GB. [Learn more](#) about maximum volume sizes.
12. System snapshots include snapshots taken by SAN Manager, Snapshot Replication, and Virtual Machine Manager.
13. Presto File Server license can be purchased separately through the application.
14. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. [Learn more](#).
15. Synology Active Insight requires purchase of an annual or monthly [subscription](#). A free trial is available for each Synology Account.
16. Please refer to our [compatibility list](#) for the latest optional accessories list.
17. 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 addons available in select regions. Check availability for Extended Warranty [EW202](#) or [Extended Warranty Plus](#).

18. 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.

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