



RackStation

# RS3621RPxs



## Accelerating Business Workloads with Enterprise-Grade Data Protection

The Synology RackStation RS3621RPxs is a powerful 12-bay 2U storage solution with built-in redundant power. Engineered to deliver high throughput and robust data protection, its 6-core processor enables it to handle the demanding workloads of modern business environments. DiskStation Manager (DSM) provides comprehensive software solutions covering file management, data protection, surveillance, collaboration, virtualization and more.

### Highlights

- **Powerful Performance**  
Up to 189,098 random read IOPS and 4,718 MB/s sequential read performance<sup>1</sup>
- **Powerful Compute**  
Host multiple compute-intensive services with its 6-core Intel® processor
- **Upgradability**  
Two PCIe expansion slots allow for M.2 NVMe cache adapters and high-bandwidth network cards<sup>2</sup>
- **Redundant Power**  
Ensure business continuity with two redundant power supplies
- **On-demand Scalability**  
Supports up to 36 drive bays using two RX1217(RP)<sup>3</sup>
- **Warranty**  
Comes with Synology's 5-year warranty<sup>4</sup>

## Built to Handle Intensive Workloads

Synology RackStation RS3621RPxs is built to deliver exceptional performance, flexibility, and scalability to meet the requirements of businesses.

- Up to **189,098** 4K random read IOPS and **4,718 MB/s** sequential read performance for demanding workloads<sup>1</sup>
- Featuring 12 drive bays supporting both SATA HDD/SSD 2.5/3.5" drives<sup>5</sup>, expandable to 36 bays using two Synology RX1217(RP) expansion units<sup>3</sup>



### 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.*

## Optimized for Data Protection and Integrity

Powered by **Synology DSM**, our unified data management operating system, and built upon the **Btrfs** file system, data stored on the RS3621RPxs is safely guarded by modern data protection technologies.

- **Advanced snapshots technology** provides schedulable and near-instantaneous data protection of shared folders and LUNs
- **File and folder-level data restoration** enables restoration of specific files or folders
- **Flexible storage quota system** helps admins effortlessly manage available space by specifying storage limits for shared folders
- **File self-healing** detects and recovers corrupted files using mirrored metadata and RAID configurations
- **Inline compression** compresses data before writing it to the drive, reducing write commands and optimizing storage space



## Flexible Virtualization

Whether providing VM storage through iSCSI, NFS, or running VMs directly on the RS3621RPxs using Virtual Machine Manager, Synology DSM provides comprehensive tools to protect your virtual machines.

## Virtualization and Certified Storage

DSM streamlines the provisioning and management of storage for virtual machines (VM). Certified for VMware® vSphere™, Microsoft® Hyper-V®, Citrix® XenServer™, and OpenStack, it integrates with your virtualization platform of choice through iSCSI or NFS protocols. Install Synology Storage Console on VMware or Windows platforms for additional management convenience and functionality right in the hypervisor.

**Synology Virtual Machine Manager (VMM)** is a hosted hypervisor for virtual machines running Windows®, Linux®, or virtualized versions of DSM with recovery mechanisms that ensure data protection on each VM<sup>6</sup>.

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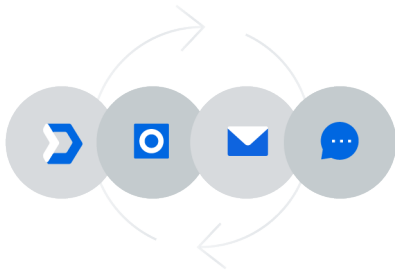
## Data Backup Solutions for IT Infrastructure

**Synology Active Backup Suite** is a collection of license-free backup solutions built to protect Windows PCs and servers, VMs, other file servers, and cloud-based storage.

**Active Backup for Business (ABB)** consolidates backup tasks for physical and virtual environments and enables rapid restoration of files, entire physical machines, and VMs.

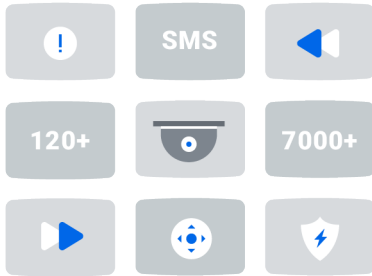
**Active Backup for G Suite** enables backup of Google Workspace data including Gmail, Contacts, Calendar, and Drive.

**Active Backup for Microsoft 365** enables backup of Microsoft 365 data including OneDrive for Business, SharePoint Online, emails, contacts, and calendar.



## Synology Collaboration Suite

*A powerful and secure private cloud solution that lets teams collaborate, sync files, and communicate with others anytime, anywhere.*



## Always On Guard

*Surveillance Station combines intelligent monitoring and robust management features for flexible deployment scenarios.*

## On-Premises Collaboration

Synology's collaboration suite is a private SaaS for file sharing, concurrent document editing, emails, instant messaging, and more. By leveraging a private cloud infrastructure, it ensures data ownership while multi-layered security enables secure multi-platform access.

**Synology Drive** allows data access, synchronization, on-demand file restoration, and backup.

**Synology MailPlus**<sup>7</sup> provides a secure, reliable, and private email server.

**Synology Chat** brings teams together through instant multi-platform communication.

**Synology Calendar** helps teams keep track of what is most important with convenient calendar sharing and scheduling.

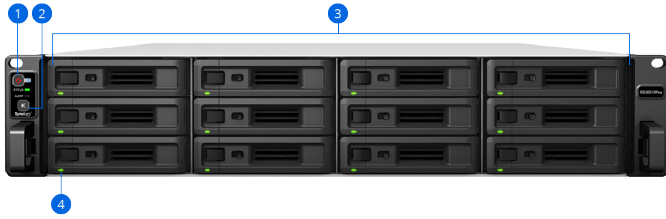
## Private Video Surveillance

With **Synology Surveillance Station**, the RS3621RPxs becomes a powerful Network Video Recorder solution with support for up to 75 IP cameras<sup>8</sup>.

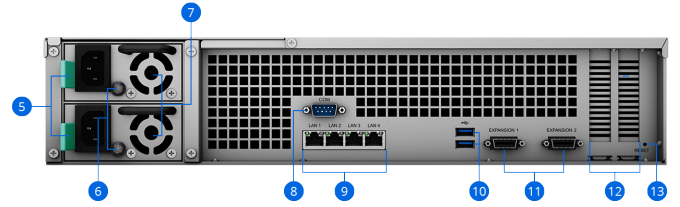
- 7,600+ **supported camera models**
- ONVIF support to prevent vendor lock-in
- Private, subscription-free storage of the recordings
- Access through web browser, dedicated desktop clients, or mobile app
- Event-based rules to trigger specific actions
- Email, SMS, or push notification systems

# Hardware Overview

## Front



## Rear



|    |                          |    |                                    |    |                 |    |                        |
|----|--------------------------|----|------------------------------------|----|-----------------|----|------------------------|
| 1  | Power Button & Indicator | 2  | Alert Off Button                   | 3  | Drive Trays     | 4  | Drive Status Indicator |
| 5  | Power Ports              | 6  | PSU Indicators & Alert Off Buttons | 7  | PSU Fans        | 8  | Console Port           |
| 9  | 1GbE RJ-45 Ports         | 10 | USB 3.2 Ports                      | 11 | Expansion Ports | 12 | PCIe Expansion Slots   |
| 13 | Reset Button             |    |                                    |    |                 |    |                        |

## Technical Specifications

### Hardware

|                            |   |
|----------------------------|---|
| CPU                        | Intel® Xeon® D-1531 6-core (12-thread) 2.2 GHz, Turbo Boost up to 2.7 GHz   |
| Hardware encryption engine | Yes (AES-NI)  |
| Memory                     | 8 GB DDR4 ECC UDIMM (expandable up to 64 GB)  |
| Compatible drive types     | <ul style="list-style-type: none"> <li>• 12 x 3.5" or 2.5" SATA HDD/SSD (drives not included)</li> <li>• Only drives listed on the compatibility list can be used to create storage pools<sup>5</sup></li> <li>• Only Synology SAT5200 2.5" or Synology SNV3500 series SSDs (sold separately) can be used to create SSD caches<sup>9</sup></li> </ul> |
| Hot swappable drive        | Yes   |
| External ports             | <ul style="list-style-type: none"> <li>• 2 x USB 3.2 Gen 1 ports</li> <li>• 2 x Expansion ports (Infiniband)</li> </ul>   |
| Form factor                | Rackmount 2U  |
| Size (HxWxD)               | 88 x 482 x 724 mm (with server handles)   |
| Weight                     | 14.5 kg   |
| LAN ports                  | 4 x 1GbE RJ-45  |
| Wake on LAN/WAN            | Yes   |
| PCIe 3.0 slots             | <ul style="list-style-type: none"> <li>• 2 x 8-lane x8 slots</li> <li>• Supports network interface cards<sup>2</sup> and M.2 NVMe SSD adapter cards for SSD cache<sup>9</sup></li> </ul>  |
| Scheduled power on/off     | Yes   |
| System fans                | 4 x (80 x 80 x 32 mm)   |
| AC input power voltage     | 100 V to 240 V AC   |
| Power frequency            | 50/60 Hz, single phase  |
| Operating temperature      | 0°C to 35°C (32°F to 95°F)  |
| Storage 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 Specification

|                      |  |
|----------------------|--|
| Networking protocols | SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, 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<sup>10</sup></li> </ul>   |
| Supported RAID types      | Synology RAID F1, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10  |
| Storage management        | <ul style="list-style-type: none"> <li>• Maximum single volume size: 108/200 TB<sup>11</sup></li> <li>• Maximum system snapshots: 65,536<sup>12</sup></li> <li>• Maximum internal volumes: 128</li> </ul>   |
| SSD cache                 | <ul style="list-style-type: none"> <li>• Read/write cache support</li> <li>• 2.5" SATA SSD support</li> <li>• M.2 NVMe SSD support<sup>9</sup></li> </ul>   |
| File sharing capabilities | <ul style="list-style-type: none"> <li>• Maximum local user accounts: 16,000</li> <li>• Maximum local groups: 512</li> <li>• Maximum shared folders: 512</li> <li>• Maximum concurrent SMB/NFS/AFP/FTP connections: 2,000<sup>13</sup></li> </ul> |
| Privileges                | Windows® Access Control List (ACL), 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® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack®  |
| Security                  | Firewall, shared folder encryption, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (customizable cipher suite)  |
| Supported clients         | Windows® 7 onwards, macOS® 10.12 onwards  |
| Supported browsers        | Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards, Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) 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

|                                  |   |
|----------------------------------|---|
| Drive                            | <p>Synchronizes files across Windows®, macOS®, Linux®, Android™ and iOS. The built-in cross-platform portal allows access to data anytime and anywhere.</p> <ul style="list-style-type: none"> <li>• Maximum number of hosted files: 3,000,000</li> <li>• Maximum number of concurrent connections for PC clients: 1,800</li> </ul>     |
| 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.  |
| 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 <sup>14</sup> | Enables high-speed data transfer over WAN through the exclusive SITA technology between Synology NAS and desktop.   |
| Cloud Sync                       | Offers one or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Amazon S3-compatible storage, 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                 | Enables global search of applications and files.  |

### iSCSI Storage & Virtualization

|                         |   |
|-------------------------|---|
| iSCSI Manager           | <ul style="list-style-type: none"> <li>• Maximum iSCSI targets: 256</li> <li>• Maximum iSCSI LUNs: 512</li> <li>• iSCSI LUN clone/snapshot support</li> </ul> |
| Virtual Machine Manager | Deploys and runs virtual machines on the Synology NAS, including Windows®, Linux®, and Virtual DSM.   |

### Data Protection & Backup Solution

|                            |  |
|----------------------------|--|
| Hyper Backup               | Supports local backup, network backup, and data backup to public clouds.   |
| Backup tools               | <ul style="list-style-type: none"> <li>• DSM configuration backup, macOS® Time Machine® support, Synology Drive Client desktop application</li> <li>• Shared folder sync supports a maximum of 32 tasks</li> </ul> |
| Snapshot Replication       | <ul style="list-style-type: none"> <li>• Maximum number of snapshots for shared folders: 1,024</li> <li>• Maximum number of replications: 64</li> </ul>  |
| Synology High Availability | Reduces service downtime by combining two identical NAS into a high-availability cluster.  |
| Active Backup for G Suite  | Supports backup and restoration of Google Workspace My Drive, Team Drive, Gmail, Contacts, and Calendar.   |

|   |  |
|---|--|
| <b>Active Backup for Microsoft 365</b>  | Supports backup and restoration of Microsoft 365 OneDrive for Business, mail, contacts, and calendar.  |
| <b>Active Backup for Business</b>       | 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.   |
| <b>Productivity &amp; Collaboration</b> |  |
| <b>Collaboration tools</b>              | Users can collaborate through the instant messaging service Synology Chat, the online editor Synology Office, and the scheduling assistant Synology Calendar. <ul style="list-style-type: none"> <li>• Maximum users for Chat: 4,000</li> <li>• Maximum users for Office: 3,000</li> <li>• Calendar supports CalDAV and access via mobile devices</li> </ul>                                   |
| <b>Note Station</b>                     | A note taking platform that supports rich text, note organization and versioning, encryption, sharing, media embedding, and attachments.   |
| <b>Synology MailPlus Server</b>         | A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering <sup>7</sup> .  |
| <b>Synology MailPlus</b>                | An intuitive webmail interface for Synology MailPlus Server with customizable mail labels, filters, and user interface.  |
| <b>Multimedia</b>                       |  |
| <b>Moments</b>                          | A feature-rich photo management application that includes AI-powered album creation from facial and subject recognition, photo editing and sharing capabilities, similar photo detection for duplicate management, auto-editing functions such as color correction and angle adjustments, and auto-selection of the best shots. Mobile applications are available on iOS and Android™ devices. |
| <b>Other packages</b>                   | Video Station, Photo Station, Audio Station, iTunes® Server  |
| <b>Surveillance</b>                     |  |
| <b>Surveillance Station</b>             | Maximum IP cameras: 75, for a total of 2,250 FPS at 720p (H.264) <sup>8</sup> .  |
| <b>All-in-One Servers</b>               |  |
| <b>Synology Directory Server</b>        | Provides a flexible and cost-effective domain controller solution.   |
| <b>Central Management System</b>        | Provides a single interface to manage and monitor multiple Synology NAS.   |
| <b>VPN Server</b>                       | <ul style="list-style-type: none"> <li>• Maximum connections: 40</li> <li>• Supported VPN protocols: PPTP, OpenVPN™, L2TP/IPSec</li> </ul>   |
| <b>Mail Server</b>                      | <ul style="list-style-type: none"> <li>• Supported Mail Server protocols: POP3, SMTP, IMAP</li> <li>• LDAP/AD account support</li> </ul>   |
| <b>Mail Station</b>                     | A webmail interface for Mail Server to receive emails from multiple POP3 mailboxes and SMTP servers.   |
| <b>Web Station</b>                      | Enables hosting for up to 30 websites with support for PHP/MariaDB® and 3rd-party applications.  |
| <b>Other packages</b>                   | DNS Server, RADIUS Server, Log Center  |
| <b>Others</b>                           |  |
| <b>Storage Analyzer</b>                 | 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.   |
| <b>Antivirus Essential</b>              | Provides full system scans, scheduled scans, white list customization, and auto-update of virus definitions.   |
| <b>iOS/Android™ applications</b>        | Synology Drive, Synology MailPlus, Synology Chat, Synology LiveCam, Moments, DS audio, DS photo, DS video, DS cam, DS file, DS finder, DS note   |
| <b>Other packages</b>                   | Additional 3rd-party packages are available in the Package Center.   |
| <b>Environment and Packaging</b>        |  |
| <b>Environment safety</b>               | RoHS compliant   |
| <b>Package contents</b>                 | <ul style="list-style-type: none"> <li>• 1 x RS3621RPxs main unit</li> <li>• 1 x Quick Installation Guide</li> <li>• 1 x Accessory pack</li> <li>• 2 x AC power cords</li> </ul>   |

|                                    |  |
|------------------------------------|--|
| Optional accessories <sup>15</sup> | <ul style="list-style-type: none"> <li>• DDR4 ECC UDIMM: D4EC-2666-16G/D4EC-2666-8G</li> <li>• RKS1317 Rail Kit</li> <li>• 10GbE Network Interface Cards: E10G18-T2/E10G18-T1/E10G17-F2</li> <li>• M.2 SSD &amp; 10GbE Combo Adapter Card: E10M20-T1</li> <li>• M.2 SSD Adapter Card: M2D20</li> <li>• M.2 NVMe SSDs: SNV3500<sup>9</sup></li> <li>• 2.5" SATA SSD: SAT5200</li> <li>• 3.5" SATA HDD: HAT5300</li> <li>• Expansion Unit: RX1217(RP)</li> <li>• VisualStation units: VS960HD, VS360HD</li> <li>• Virtual DSM License Pack<sup>6</sup></li> <li>• MailPlus License Pack<sup>7</sup></li> <li>• Surveillance Device License Pack<sup>8</sup></li> </ul> |
| Warranty                           | 5 years <sup>4</sup>   |

Note: Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Performance figures obtained through internal testing by Synology. Actual performance may vary depending on the testing environment, usage, and configuration.
2. For the most up-to-date list of compatible NICs, please check our [compatibility list](#).
3. RS3621RPxs supports up to 36 drives with two Synology [RX1217\(RP\)](#) expansion units, sold separately.
4. The warranty period starts from the purchase date as stated on your purchase receipt. [Learn more](#) about our limited product warranty policy.
5. Check our [compatibility list](#) for supported drives.
6. Certain advanced features require [Virtual Machine Manager Pro](#). 1 [Virtual DSM license](#) is included, licenses are required for running additional instances.
7. 5 MailPlus licenses are included, licenses required for additional user accounts. [Learn more](#) about licenses.
8. Surveillance Station includes 2 free licenses. Connecting more cameras and devices requires [additional licenses](#).
9. SSD cache can be enabled by using Synology SAT5200 2.5" SSDs or without occupying drive bays by installing Synology SNV3500 NVMe SSDs using M2D20 or E10M20-T1 adapter cards, sold separately.
10. exFAT Access can be purchased separately through the DSM Package Center.
11. Multiple volumes of 200 TB or less can be created by upgrading the memory to 32 GB or more. [Learn more](#) about maximum volume sizes.
12. System snapshots include snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.
13. Maximum concurrent connections can be increased to 10,000 with maximum installed memory of 64 GB RAM.
14. Presto File Server license can be purchased separately through the application.
15. Please refer to our [compatibility list](#) for the latest optional accessories list.

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