

## RackStation RS3621xs+



**Brand:** Synology  
**Product Code:** RS3621xs+  
**Availability:** 10  
**Weight:** 14.50kg  
**Dimensions:** 88.00mm x 482.00mm x  
724.00mm  
**Call for Price:**

### Short Description

Synology 12 bay RackStation RS3621xs+ (Diskless)

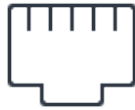
### Description

## Accelerate your business operations

The 12-bay RS3621xs+ is capable of delivering over 238K 4K random read IOPS and 5,819 MB/s sequential read throughput — a true enterprise powerhouse. With full power supply redundancy, an 8-core processor, ECC memory, advanced snapshot technology, and file self-healing, the RS3621xs+ provides a reliable foundation to any data-driven business.



Intel® Xeon® D-1541 8-core 2.1 GHz



## **Networking**

Built-in dual-port 10GbE



## **Memory**

8 GB ECC DDR4 Up to 64 GB



## **Scalability**

Up to 36 drive bays with RX1217RP/RX1217

## **Storage you can trust**

The RS3621xs+ keeps your data protected while you concentrate on delivering the best results to your customers — even when disaster strikes.

## **Redundant power**

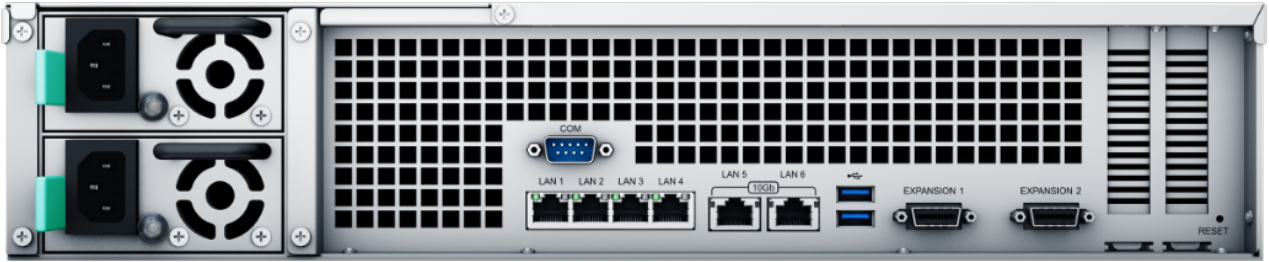
Dual PSUs provide protection against a PSU failure or accidental cord removal while hot-swappable fans allow them to be replaced without powering down the system.

## **Maximize service availability**

Synology High Availability (SHA) pairs two identical units together creating an active-passive cluster with minute-level failover.

## **Next-generation file system**

Btrfs prevents data corruption and reduces maintenance overheads with advanced storage technologies and optimized snapshots.



## **Tailored to your business**

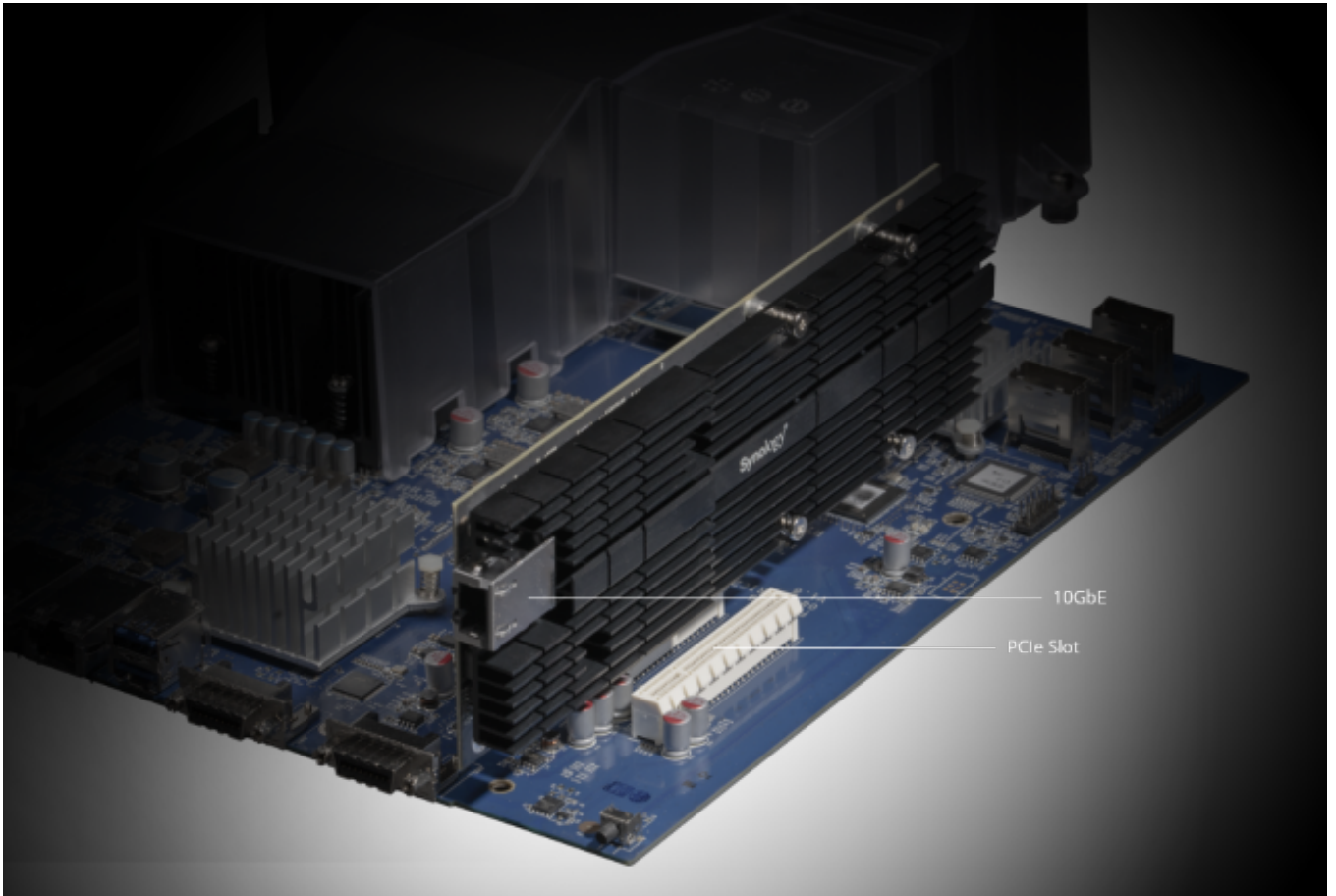
The RS3621xs+ includes two PCIe slots for performance, networking, and storage upgrades enabling it to adapt to any business environment.

## **Double bandwidth**

Upgrade network bandwidth in minutes by 2x or more with Synology's range of 10GbE NICs.

**SSD cache**

**Storage expansion**



**License-free data protection**

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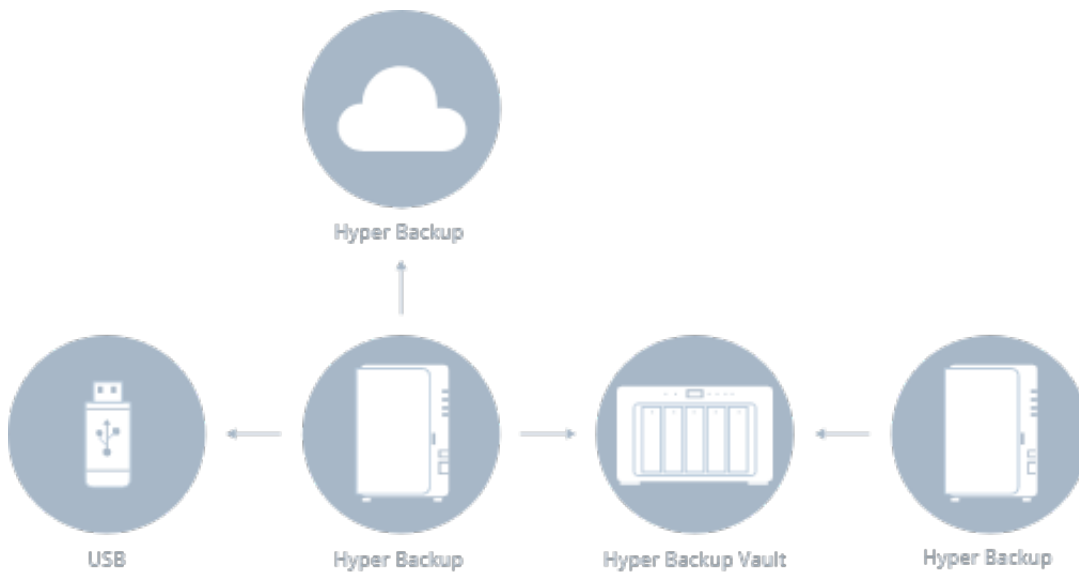
## **Keep disaster at bay**

### **Hyper Backup**

A comprehensive backup and recovery solution for securing data stored on Synology servers. Backup data locally, to another Synology device, rsync server, or cloud-based storage such as Google Drive, Dropbox, S3-compatible destinations, and [Synology C2](#). Deduplication, integrity checks, and incremental transfer technology reduce bandwidth and storage used.

### **Snapshot Replication**

Easily schedule flexible point-in-time backups of shared folders and iSCSI LUNs with an RPO as low as 5 minutes and recovery in seconds. Set up replication and failover to other Synology storage systems for fast RTOs and minimal service disruption.



## **Backup your entire IT infrastructure**

### **Active Backup Suite**

Enables administrators to easily backup the entire IT infrastructure to their NAS,



including Windows & Linux workstations and servers, file servers, VMware and Hyper-V virtual machines, and Microsoft 365 and Google Workspace accounts. Backups benefit from deduplication, multiversioning, and optimizations to reduce bandwidth and storage used.



## **Storage for virtualization**

Synology iSCSI storage supports mainstream virtualization solutions with an easy

management interface to enhance usability. VMware vSphere 6.5 and VAAI integration helps offload storage operations. Windows Offloaded Data Transfer (ODX) speeds up data transfer. OpenStack Cinder support turns your Synology NAS into a block-based storage component. Additionally, Synology Storage Console enables even more simplified storage provisioning and management options in VMware and Windows environments.



## **Complete surveillance solution**

Synology Surveillance Station transforms the RS3621xs+ into a feature-packed Network Video Recorder solution. Support for up to 90 IP cameras and video analytics such as motion detection, no idle zone, foreign object detection, and anomaly detection cater to the most common surveillance scenarios.

## **Secure and private**

AES-256 encryption adds additional security to the locally-stored footage.

## **Access from anywhere, anytime**

Access recordings and live streams whenever you want using a web browser, desktop client, or the DS cam mobile app.

## **Real-time alerts**

Email, SMS, or push notifications alert you when incidents occur or predefined conditions are met.



## Software

DSM Specifications

### [Storage Management](#)

Maximum Single Volume  
Size

- 1 PB (64 GB memory required, for RAID 6 groups only)
- 200 TB (32 GB memory required)
- 108 TB

Maximum Internal Volume    256  
Number

SSD Read/Write

Cache ([Determining cache  
size](#))

SSD TRIM

RAID Group

Supported RAID Type

- RAID F1
- Basic
- JBOD
- RAID 0

RAID Migration	<ul style="list-style-type: none"> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> <li>• Basic to RAID 1</li> <li>• Basic to RAID 5</li> <li>• RAID 1 to RAID 5</li> <li>• RAID 5 to RAID 6</li> </ul>
Volume Expansion with Larger HDDs	<ul style="list-style-type: none"> <li>• RAID F1</li> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> </ul>
Volume Expansion by Adding a HDD	<ul style="list-style-type: none"> <li>• RAID F1</li> <li>• JBOD</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID F1</li> </ul>
Global Hot Spare Supported RAID Type	<ul style="list-style-type: none"> <li>• RAID 1</li> <li>• RAID 5</li> <li>• RAID 6</li> <li>• RAID 10</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• 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.</li> <li>• When Peta Volume is enabled, validated services and packages are required. Please refer to <a href="#">this article</a> for more information on limitations.</li> <li>• Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive</li> </ul>

bays available, and the RAID configuration.

- Volumes over 108 TB require 32 GB of memory or more.

## File System

Internal Drives

- Btrfs
- ext4

External Drives

- Btrfs
- ext4
- ext3
- FAT
- NTFS
- HFS+
- exFAT

Notes

exFAT Access can be installed for free from Package Center in DSM 7.0. In DSM 6.2 or earlier versions, exFAT Access needs to be purchased in Package Center.

## File Services

File Protocol

- SMB
- AFP
- NFS
- FTP
- WebDAV
- Rsync

Maximum Concurrent SMB/AFP/FTP Connections 2,000

Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion) 10,000

Windows Access Control List (ACL) Integration

NFS Kerberos Authentication

Notes

- Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of

supported RAM.

- During testing, the maximum number of SSDs supported by this model is installed in a RAID 5 configuration.
- The testing standard was based on the maximum number of concurrent connections supported by this model. During the testing, 25% of the connections were used to transfer files concurrently. The transfer process guaranteed that the connections were not interrupted; the minimum transfer speed was not guaranteed.

[Account & Shared Folder](#)

Maximum Local User Accounts	16,000
Maximum Local Groups	512
Maximum Shared Folder	512
Maximum Shared Folder Sync Tasks	32

[Hybrid Share](#)

Maximum Hybrid Share Folders	15
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[Hyper Backup](#)

Folder and Package Backup	
Entire System Backup	
Notes	Full-system backup requires DSM 7.2 or later.

[High Availability](#)

[Log Center](#)

[Virtualization](#)

Synology High Availability	
Syslog Events per Second	3,000
VMware ESXi 6.5 and VAAI	
Windows Server 2016	
Windows Server 2019	
Windows Server 2022	

## General Specifications

Citrix Ready  
OpenStack  
Supported Protocols

SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, Fibre Channel, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV

Supported Browsers

- Chrome
- Firefox
- Edge
- Safari

Supported Language

English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ?????, ????

Notes

For an updated list of supported browser versions, check the [DSM Technical Specifications](#).

Add-on Packages [view the complete package list](#)

[Central Management System](#)

[Synology Chat](#)

Suggested Users

500

Notes

Models with expandable memory are tested with their maximum supported memory.

Download Station

Maximum Concurrent Download Tasks

80

[SAN Manager](#)

Maximum iSCSI Target Number

256

Maximum LUN

512

LUN Clone/Snapshot, Windows ODX

Notes

iSCSI Manager has been renamed to SAN Manager in DSM 7.0.



[Synology MailPlus /  
MailPlus Server](#)

Free Email Accounts

Suggested Users

Notes

5 ([Additional accounts  
require purchase of licenses](#))

10,000

- Suggested users is derived from testing in an environment with 20% heavy users (each with 20,000 pre-populated emails and receiving 240 emails per day) and 80% light users (each receiving an average of 20 emails per day). [Learn more](#)
- The performance of the mail system will slightly decrease in high-availability mode due to data synchronization between the two servers.
- Functions that were enabled in all of the tests above: anti-spam, anti-virus, DNSBL, greylist, content scan, full-text search (English only).
- Models with expandable memory are tested with their maximum supported memory. To estimate the RAM requirement for your NAS, please [read this article](#)

[Media Server  
Synology Photos](#)

DLNA Compliance  
Facial Recognition  
Object Recognition

## Snapshot Replication

Maximum Snapshots per Shared Folder 1,024

Maximum of System Snapshots 65,536

## Surveillance Station

Default Licenses 2 ([Additional cameras require purchase of licenses](#))

Suggested Maximum IP Cameras and Total FPS (H.264)

- 1080p: 90 channels, 2250 FPS
- 3M: 90 channels, 1500 FPS
- 5M: 90 channels, 900 FPS
- 4K: 55 channels, 550 FPS

Suggested Maximum IP Cameras and Total FPS (H.265)

- 1080p: 90 channels, 2700 FPS
- 3M: 90 channels, 2250 FPS
- 5M: 90 channels, 1500 FPS
- 4K: 90 channels, 1080 FPS

Notes

- Performance figures are obtained from testing conducted with the device fully populated with drives, with their default memory configuration, and under a continuous recording setup. Actual system capabilities may vary based on configuration, drive performance, enabled features, and the presence of additional workloads.
- Use [NVR Selector](#) to quickly find a suitable

model based on your requirements.

- The number of streams that can be viewed simultaneously is **twice** the suggested maximum number of cameras. For example, if the suggested maximum number of cameras for a model is 10 under H.264, 1080p, the model can support up to 20 streams of the same specification at the same time.

## [Synology Drive](#)

Recommended Number of Concurrent Sync Clients

2,000 (the number of connections that can be maintained when the recommended number of hosted files was reached)

Recommended Number of Hosted Files

50,000,000 (applies to files indexed or hosted by [Synology Drive](#). For file access through other standard protocols, refer to the File Services section above)

Notes

- Exceeding the recommended numbers above will not block application operations, but may result in longer response time.
- Utilizing SSD cache can significantly improve performance.
- Models with expandable memory are tested with their

[Synology Office](#)

Suggested Users  
Notes

12,500

- maximum supported memory.
- Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.
- Suggested users is derived from testing in an environment with 60% idle users (each logging in and viewing documents) and 40% active users (each executing random actions at intervals of 20 to 40 seconds) operating within documents, each document having 30 users. [Learn more](#)
- Models with expandable memory are tested with their maximum supported memory.
- Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

[Virtual Machine Manager](#)

Recommended Virtual  
Machine Instances

16 ([Learn more](#))

Recommended Virtual DSM  
Number ([Licenses required](#))

16 (including 1 Free License)

Notes

The specifications vary depending on system configuration and memory size.

**Specification**

NAS	
RJ-45 10GbE LAN Port	2
CPU Architecture	64-bit
CPU Core	8
CPU Frequency	2.1 (base) / 2.7 (turbo) GHz
CPU Model	Intel Xeon D-1541
CPU Quantity	1
Drive Bays	12
Expansion Port	2
Form Factor (RU)	2U
Hardware Encryption Engine	Yes
Hot Swappable Drive	Yes
Maximum Memory Capacity	64 GB (16 GB x 4)
Memory	8 GB DDR4 ECC UDIMM
PCIe Expansion	2 x Gen3 x8 slots (x8 link)
Power Supply Unit / Adapter	500 watts 550 watts*
Redundant Power Supply	Yes
RJ-45 1GbE LAN Port	4
System Fan	80 mm x 80 mm x 4 pcs
Total Memory Slots	4
USB 3.2 Gen 1 Port	2

**Product Gallery**