RackStation RS3621RPxs

Brand: Synology

Product Code: RS3621RPxs

Availability: 10 **Weight:** 14.50kg

Dimensions: 88.00mm x 482.00mm x

724.00mm

Price: 245,400.00EGP



Short Description

Synology 12 Bay RackStation RS3621RPxs

Description

Safeguard your business assets

Synology RS3621RPxs is a powerful 12-bay storage server. Its 6-core processor enables compute-intensive services while its redundant power, ECC memory, and Btrfs file system safeguard mission-critical data. Capable of delivering 189,098 4K random read IOPS and 4,718 MB/s sequential read throughput¹, it is ideal for small businesses.



Intel[®] Xeon[®] D-1531 6-core 2.2 GHz



Throughput

4,718 MB/s seq. read 189,098 4K random read $IOPS^{1}$



Expandability

Dual PCIe slots for 10GbE or NVMe cache



Scalability

Up to 36 drive bays with RX1217RP/RX1217

Reliability first

Service continuity is at the core of the RS3621RPxs design.

Redundant power

Dual PSUs provide protection against a PSU failure or accidental cord removal while hotswappable fans can be replaced without powering down the system.

Near-zero downtime

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

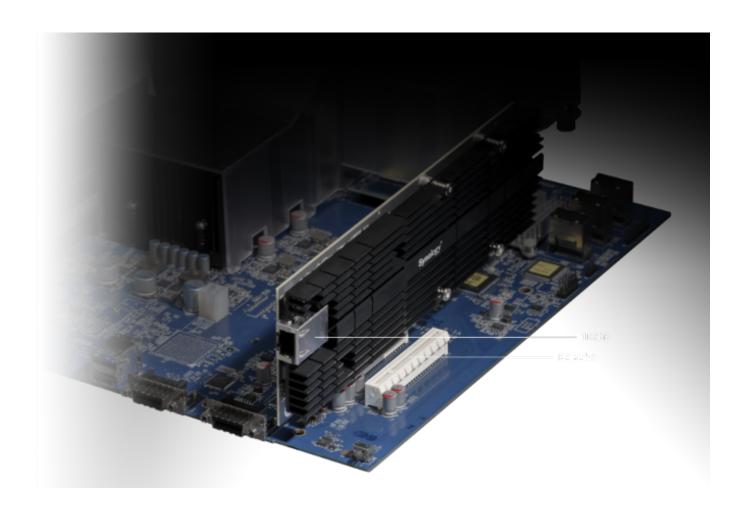
Next-generation file system

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



Customize to suit
The two built-in PCIe slots allow users to customize the RS3621RPxs to satisfy unique
performance, networking, and storage requirements.
10GbE ready
Support for 10GbE NICs expands the throughput of the unit by up to 5x times using link aggregation.
SSD cache

On-demand drive bays



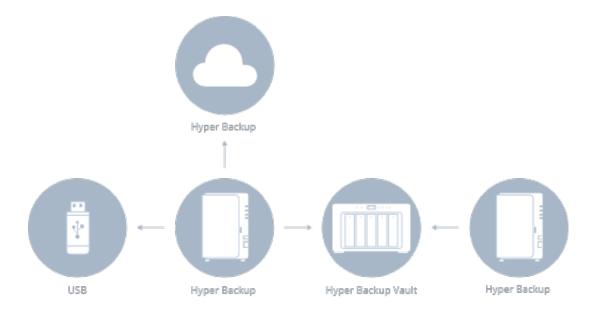
License-free backup solutions Keep disaster at bay

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. Deduplication⁴, integrity checks, and incremental transfer technology reduce bandwidth and storage used.

Snapshot Replication

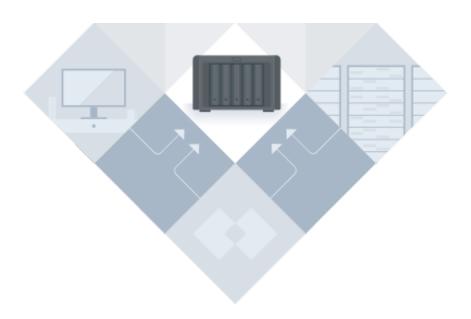
Easily schedule flexible point-in-time backups of shared folders and iSCSI LUNs with an RPO as low as 5 minutes and recovery in seconds. Set up replication and failover to other Synology storage systems for fast RTOs and minimal service disruption.



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.









Powerful built-in surveillance functionality

Synology Surveillance Station transforms the RS3621RPxs into a feature-packed Network Video Recorder solution. Support for up to 75 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

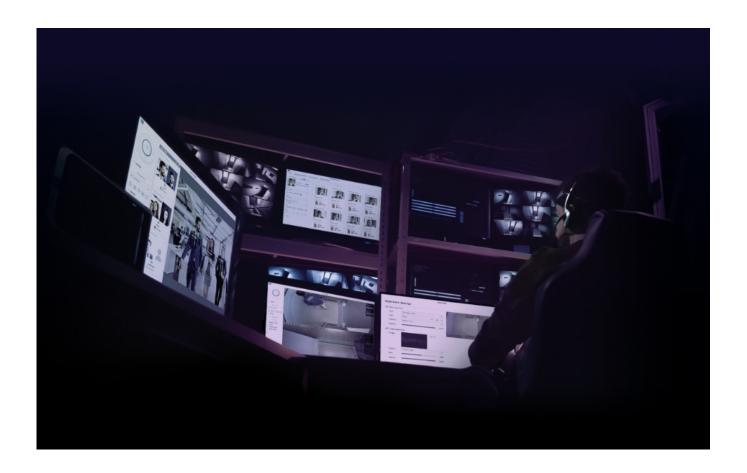
AES-256 encryption keeps locally-stored footage secure.

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.



SoftwareDSM 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 128

Number

SSD Read/Write

Cache (Determining cache

size)

SSD TRIM

RAID Group

Supported RAID Type

• RAID F1

• Basic

- JBOD
- RAID 0
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- RAID Migration Basic to RAID 1
 - Basic to RAID 5
 - RAID 1 to RAID 5
 - RAID 5 to RAID 6
- Volume Expansion with Larger HDDs

Volume Expansion by

Adding a HDD

- RAID F1RAID 1
- RAID 5
- RAID 6
- RAID 10
- RAID F1
- JBOD
- RAID 5
- RAID 6
- RAID F1
- RAID 1
- RAID 5
- RAID 6
- RAID 10

Global Hot Spare Supported RAID Type

- 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.
- When Peta Volume is enabled, validated services and packages are required. Please refer to this article for more information on limitations.
- Actual maximum storage pool and volume sizes depend

Notes

on drive sizes used, the number of drive bays available, and the RAID configuration.

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

File System

Internal Drives

Btrfs

External Drives

ext4Btrfs

• 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

2,000

SMB/AFP/FTP Connections

Maximum Concurrent

10,000

SMB/AFP/FTP Connections

(with RAM expansion)

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	16,000
	Accounts	
	Maximum Local Groups	512
	Maximum Shared Folder	512
	Maximum Shared Folder	32
	Sync Tasks	
Hybrid Share	Maximum Hybrid Share	15
	Folders	
Hyper Backup	Folder and Package Backup	
	Entire System Backup	
	Notes	Full-system backup requires
		DSM 7.2 or later.
High Availability	Synology High Availability	
Log Center	Syslog Events per Second	3,000

VMware ESXi 6.5 and VAAI

Windows Server 2016

Virtualization

Windows Server 2019 Windows Server 2022

Citrix Ready OpenStack

General Specifications 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 <u>DSM Technical</u>

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.

80

256

Download Station Maximum Concurrent

Download Tasks

SAN Manager Maximum iSCSI Target

Number

Maximum LUN 512

LUN Clone/Snapshot,

Windows ODX

Notes iSCSI Manager has been

Synology MailPlus / MailPlus Server

Free Email Accounts

Suggested Users Notes renamed to SAN Manager in DSM 7.0.

5 (Additional accounts

require purchase of licenses)
7,000

- Suggested users is derived from testing in an environment with 20% heavy users (each with 20,000 prepopulated 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: antispam, 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

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Synology Photos **Facial Recognition Object Recognition Snapshot Replication** Maximum Snapshots per 1,024 Shared Folder Maximum of System 65,536 **Snapshots** Surveillance Station **Default Licenses** 2 (Additional cameras require purchase of licenses) • 1080p: 75 channels, Suggested Maximum IP Cameras and Total FPS 2100 FPS • 3M: 75 channels, (H.264)1500 FPS • 5M: 75 channels, 900 **FPS** • 4K: 55 channels, 550 **FPS** • 1080p: 75 channels, Suggested Maximum IP Cameras and Total FPS 2250 FPS (H.265)• 3M: 75 channels, 2250 FPS • 5M: 75 channels, 1500 FPS • 4K: 75 channels, 900 **FPS** • Performance figures Notes 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

presence of additional

features, and the

workloads.

- Use <u>NVR Selector</u> 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

Recommended Number of

Notes

Hosted Files

1,800 (the number of connections that can be maintained when the recommended number of hosted files was reached) 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)

- 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 maximum supported memory.

• Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

Synology Office

Suggested Users Notes

12,500

- 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

Recommended Virtual DSM 12 (including 1 Free License)

Number (Licenses required)

Notes

12 (Learn more)

The specifications vary depending on system

size.

<u>VPN Server</u> Maximum Connections 60

Specification

Specification	
NAS	
CPU Model	Intel Xeon D-1531
CPU Quantity	1
CPU Core	6
CPU Architecture	64-bit
CPU Frequency	2.2 (base) / 2.7 (turbo) GHz
Hardware Encryption	Yes
Engine	
Memory	8 GB DDR4 ECC UDIMM
Drive Bays	12
Hot Swappable Drive	Yes
RJ-45 1GbE LAN Port	4
USB 3.2 Gen 1 Port	2
System Fan	80 mm x 80 mm x 4 pcs
Power Supply Unit /	500 watts 550 watts*
Adapter	
Total Memory Slots	4
Maximum Memory	64 GB (16 GB x 4)
Capacity	
Expansion Port	2
PCIe Expansion	2 x Gen3 x8 slots (x8 link)
Form Factor (RU)	2U
Redundant Power Supply	Yes

Product Gallery

