RackStation RS3621xs+

Brand: Synology

Product Code: RS3621xs+

Availability: 10 **Weight:** 14.50kg

Dimensions: 88.00mm x 482.00mm x

724.00mm

Price: 306,800.00EGP



Short Description

Synology 12 Bay RackStation RS3621xs+

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 hotswappable 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

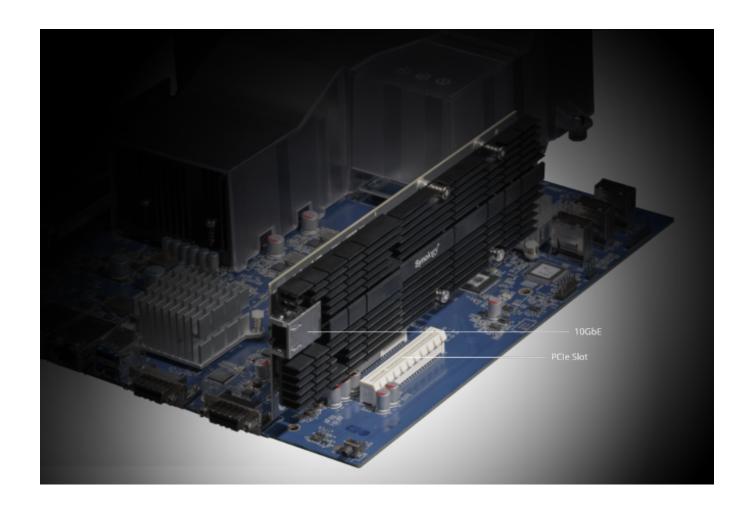
The RS3621xs+ includes two PCIe slots for performance, networking, and storage upgrades enabling it to adapt to any business environment.

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

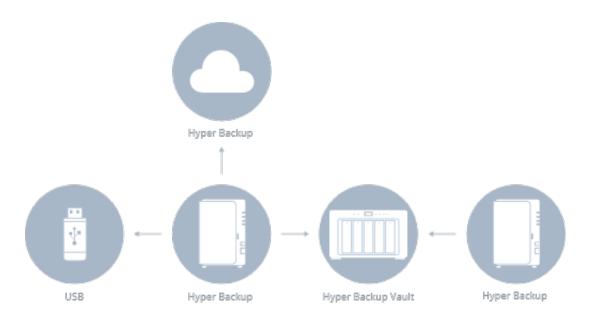
Keep disaster at bay

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.

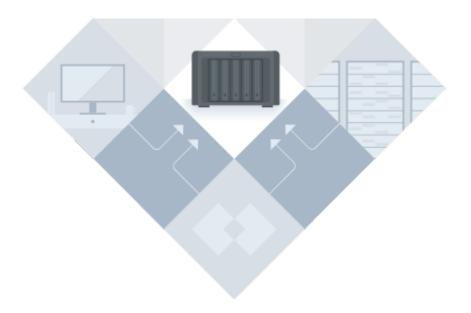


Backup your entire IT infrastructure

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

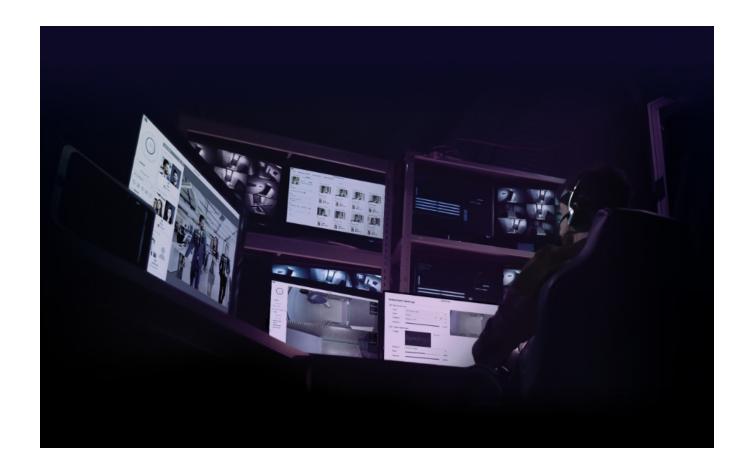
AES-256 encryption adds additional security to the locally-stored footage.

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 1
- RAID 5
- RAID 6
- RAID 10
- Basic to RAID 1
- Basic to RAID 5
- RAID 1 to RAID 5
- RAID 5 to RAID 6
- RAID F1
 - RAID 1
 - RAID 5
 - RAID 6
 - RAID 10
 - RAID F1
 - JBOD
 - RAID 5
 - RAID 6
 - RAID F1
 - RAID 1
 - RAID 5
 - RAID 6
 - RAID 10
 - 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 on drive sizes used, the number of drive

RAID Migration

Volume Expansion with Larger HDDs

Volume Expansion by Adding a HDD

Global Hot Spare Supported RAID Type

Notes

bays available, and the RAID configuration.

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

File System **Internal Drives** • Btrfs

External Drives

• ext4 • 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.

• 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

File Services

File Protocol

- 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	

Syslog Events per Second

Windows Server 2016 Windows Server 2019 Windows Server 2022

VMware ESXi 6.5 and VAAI

3,000

Log Center

Virtualization

	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	
	Notes	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 gunnartad	

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

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 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

.

Media Server Synology Photos DLNA Compliance 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) Suggested Maximum IP • 1080p: 90 channels, Cameras and Total FPS 2250 FPS • 3M: 90 channels, (H.264)1500 FPS • 5M: 90 channels, 900 **FPS** • 4K: 55 channels, 550 **FPS** • 1080p: 90 channels, Suggested Maximum IP Cameras and Total FPS 2700 FPS (H.265)• 3M: 90 channels, 2250 FPS • 5M: 90 channels, 1500 FPS • 4K: 90 channels, 1080 **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

based on

capabilities may vary

configuration, drive performance, enabled

presence of additional

 Use <u>NVR Selector</u> to quickly find a suitable

features, and the

workloads.

- 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 Hosted Files

Notes

2,000 (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 16 (including 1 Free License)

Number (Licenses required)

Notes

The specifications vary depending on system configuration and memory size.

16 (Learn more)

Specification

Specification	
NAS	
CPU Model	Intel Xeon D-1541
CPU Quantity	1
CPU Core	8
CPU Architecture	64-bit
CPU Frequency	2.1 (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
RJ-45 10GbE LAN Port	2

Product Gallery