# RackStation RS3618xs

**Brand:** Synology

**Product Code:** RS3618xs

**Availability:** 10 **Weight:** 14.50kg

**Dimensions:** 88.00mm x 482.00mm x

724.00mm

Price: 187,900.00EGP



#### **Short Description**

Synology 12 Bay RackStation RS3618xs

#### **Description**

## High-speed scalable storage server

Synology RS3618xs is a reliable, superior-performance network-attached storage solution for large-scale enterprises with demanding business applications. It simplifies data management, optimizes virtualization environments, and rapidly expands storage capacity with minimal time investment in setup and maintenance.



CPU

quad-core up to 2.7GHz



RAM options

 $8GB\ DDR4\ ECC\ UDIMM,\ up\ to\ 64GB$ 



### Network

4 x 1GbE port, optional 10GbE NIC support



Scalability

### Up to 36 drives with RX1217/RX1217RP

# Ready for 10GbE and beyond

PCIe 3.0 slots allow for faster networking options as you expand your infrastructure. Together with the built-in quad Gigabit ports, RS3618xs offers comprehensive connectivity options for link aggregation and failover configurations.



# 5-year warranty

At Synology, we are committed to product innovation and quality. Synology guarantees a robust and reliable data management experience with a 5-year limited warranty, providing responsive technical support and hardware replacement services to maximize your return on investment.

# **Ultimate Backup Solution**

RS3618xs integrates various backup applications into an intuitive user interface, offering durable storage technologies to safeguard your valuable data on any device.



#### **Active Backup for Business**

Centralize backup tasks for VMware, Windows, and file servers. Restore whatever you want fast and reliably when needed.



### **Hyper Backup**

Comprehensively back up your data to a local shared folder, an external device, another Synology NAS, an rsync server, or a public cloud to ensure data safety.



## **Drive Package**

Safeguard your computer with Synology Drive Client. Effortlessly perform real-time data backups and point-in-time file recovery.





## **Active Backup for Microsoft 365 / Google Workspace**

Protect corporate data stored on the cloud. On-premise backup solution with a centralized dashboard. Optimize storage efficiency with single instancing and block-level deduplication technology.

### Microsoft 365 Google Workspace

# Fully certified storage virtualization solutions

Synology iSCSI storage fully supports most virtualization solutions to enhance work efficiency with easy management interface. VMware vSphere 6 and VAAI integration helps offload storage operations and optimizes computation efficiency. Windows Offloaded Data Transfer (ODX) speeds up data transfer and migration rate. OpenStack Cinder support turns your Synology NAS into a block-based storage component.

Windows Server 2019 Certified







# Next-generation file system for better data protection

The Btrfs file system introduces advanced storage technologies and optimized snapshots to prevent data corruption and reduce maintenance overhead. While ensuring high-level data integrity, it also offers flexible, efficient data protection and recovery tools.

Flexible Shared Folder/User Quota System provides comprehensive quota control on all user accounts and shared folders

Snapshot Replication provides schedulable and storage capacity-saving data protection with 1,024 shared folder backups and 65,000 system-wide snapshots

File or folder level data restoration makes data recovery fast and flexible

Automatic file self-healing detects and recovers corrupted files without user intervention



# Powered by Synology DiskStation Manager

**Central Management System** 

Conveniently manage your fleet of Synology NAS from a centralized console.

Snapshot Replication
Schedulable and instantaneous data protection of shared folders and iSCSI LUNs for quick disaster recovery.
Virtual Machine Manager
Run various operating systems in isolated sandboxes. Seamlessly clone, store, and migrate virtual machines.
Synology MailPlus

#### **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

128

Maximum Internal Volume

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

• RAID F1

- RAID 1
- RAID 5
- RAID 6
- RAID 10

Volume Expansion by • RAID F1

- JBOD
- RAID 5
- RAID 6

• RAID F1

- RAID 1
- RAID 5
- RAID 6
- RAID 10

Global Hot Spare Supported

**RAID** Type

Adding a HDD

Notes

**Internal Drives** 

**External Drives** 

Notes

• 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 bays available, and the RAID configuration.
- Volumes over 108 TB require 32 GB of memory or more.
- Btrfs
- ext4
- Btrfs
- ext4
- ext3
- FAT
- NTFS
- HFS+
- exFAT

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 System

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.

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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 Folders	15
Hyper Backup	Folder and Package Backup	
-1, per = nemp	Entire System Backup	
	Notes	Full-system backup requires
	110005	DSM 7.2 or later.
High Availability	Synology High Availability	Down 7.2 or later.
Log Center	Syslog Events per Second	3,000
Virtualization	VMware ESXi 6.5 and VAA	
viitualizatioli	Windows Server 2012	1
	Windows Server 2012 R2	
	Windows Server 2012 K2 Windows Server 2016	
	Windows Server 2019	
	Citrix Ready	
	OpenStack 1	CMD1 (CIEC) CMD2
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
		<ul><li>Firefox</li></ul>
		• Edge
		<ul> <li>Safari</li> </ul>
	Supported Language	English, Deutsch, Français,
		Italiano, Español, Dansk,
		Norsk, Svenska, Nederlands,
		??????, Polski, Magyar,
		Português do Brasil,
		Português Europeu, Türkçe,
		01 / 0000000 000 000

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 80

**Download Tasks** 

Maximum iSCSI Target **SAN Manager** 256

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

5 (Additional accounts

require purchase of licenses)

Suggested Users 2,500

Notes

• 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

**Snapshot Replication** 

**Surveillance Station** 

DLNA Compliance Facial Recognition Object Recognition

Maximum Snapshots per

Shared Folder

Maximum of System

Snapshots

**Default Licenses** 

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

Suggested Maximum IP Cameras and Total FPS (H.265) 1,024

65,536

# 2 (Additional cameras require purchase of licenses)

- 1080p: 75 channels, 2100 FPS
- 3M: 75 channels, 1500 FPS
- 5M: 75 channels, 900 FPS
- 4K: 55 channels, 550 FPS
- 1080p: 75 channels, 2250 FPS
- 3M: 75 channels, 2250 FPS
- 5M: 75 channels, 1500 FPS
- 4K: 75 channels, 900

**Notes** 

#### **FPS**

- 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 <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.

Recommended Number of Concurrent Sync Clients

1,800 (the number of connections that can be maintained when the

Recommended Number of Hosted Files

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)

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

**Synology Office** 

Suggested Users Notes 7,000

• 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

<u>Virtual Machine Manager</u> Recommended Virtual 8 (<u>Learn more</u>)

**Machine Instances** 

Recommended Virtual DSM 8 (including 1 Free License)

Number (Licenses required)

Notes The specifications vary

depending on system

configuration and memory

size.

VPN Server Maximum Connections 60

**Specification** 

<b>1</b>	
NAS	
CPU Model	Intel Xeon D-1521
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.4 (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
Adapter	
<b>Total Memory Slots</b>	4
Maximum Memory	64 GB (16 GB x 4)

Capacity	
<b>Expansion Port</b>	2
PCIe Expansion	2 x Gen3 x8 slots (x8 link)
Form Factor (RU)	2U

# **Product Gallery**