RackStation RS3618xs

Brand: Synology
Product Code: RS3618xs
Availability: 10
Weight: 14.50kg
Dimensions: 88.00mm x 482.00mm x 724.00mm
Call for Price:

Short Description
Synology 12bay NAS RackStation RS3618xs (Diskless), 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.
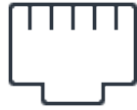
CPU

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.

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.

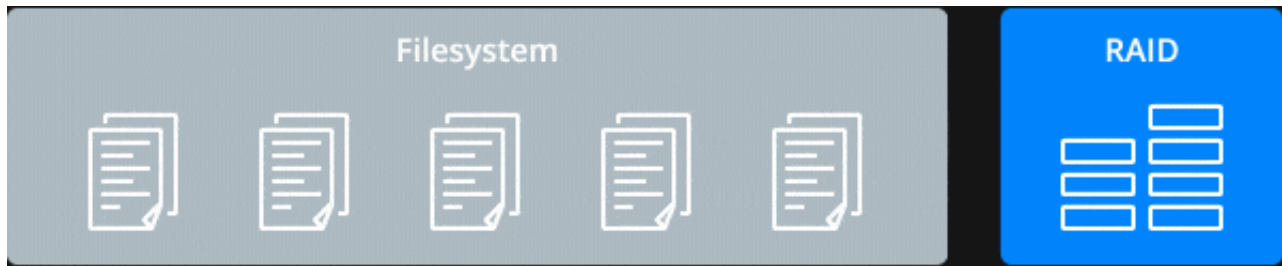# Next-generation file system for better data protection

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

Secure, reliable, and private mail server solution with an intuitive and modern mail client.

Synology High Availability

Seamless transition between clustered servers in the event of a server failure to minimize the impact on applications.

Synology Drive

Instantly access your NAS files across multiple devices whenever you want, wherever you are.

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 Number	128
	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 Adding a HDD	• RAID F1 • JBOD • RAID 5 • RAID 6
	Global Hot Spare Supported RAID Type	• RAID F1 • RAID 1 • RAID 5 • RAID 6 • RAID 10
	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.
[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
[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
Virtualization	VMware ESXi 6.5 and VAAI	
	Windows Server 2012	
	Windows Server 2012 R2	
	Windows Server 2016	
	Windows Server 2019	
	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 [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 LUN Clone/Snapshot, Windows ODX	512
	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 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: 75 channels, 2100 FPS 3M: 75 channels, 1500 FPS 5M: 75 channels, 900 FPS 4K: 55 channels, 550 FPS
	Suggested Maximum IP Cameras and Total FPS (H.265)	1080p: 75 channels, 2250 FPS 3M: 75 channels, 2250 FPS 5M: 75 channels, 1500 FPS 4K: 75 channels, 900 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	1,800 (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 maximum supported memory. • Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.
[Synology Office]()	Suggested Users	7,000
	Notes	• 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	8 (Learn more)
	Recommended Virtual DSM Number (Licenses required)	8 (including 1 Free License)
	Notes	The specifications vary depending on system configuration and memory size.
VPN Server	Maximum Connections	60

Specification

NAS	
CPU Architecture	64-bit
CPU Core	4
CPU Frequency	2.4 (base) / 2.7 (turbo) GHz
CPU Model	Intel Xeon D-1521
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
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