RackStation RS1619xs+

Brand: Synology
Product Code: RS1619xs+
Availability: 10
Weight: 8.16kg
Dimensions: 44.00mm x 480.00mm x 518.60mm
Call for Price:

Short Description
Synology NAS Rackstation (Diskless) (RS1619xs+), 4-bay; 8GB DDR4

Description

Fast storage with outstanding computing power

RS1619xs+ is a high-performance and scalable 1U rackmount NAS designed with upgradable memory and M.2 SSD cache configuration to meet the needs of modern businesses that require a flexible, reliable, and efficient storage solution.

CPU

Quad-core up to 2.7GHz

RAM options

8GB DDR4 UDIMM, up to 64GB

High Performance

1,523 MB/s sequential reading, 162,097 iSCSI random read IOPS

Scalability

Up to 16 drives with one RX1217/RX1217RP

Variable options to boost system computing performance

Equipped with a PCIe 3.0 slot, RS1619xs+ supports installing a 10GbE/25GbE NIC for fast data transmission. Built-in M.2 2280 SSD cache slots further benefit IO-intensive tasks, such as virtualization or mail server deployment.

M.2 SSD support

Dual M.2 2280 slots supporting NVMe/SATA SSDs

10GbE/25GbE support

optional high-speed network capacity for bandwidth-intensive environments

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.

Complete iSCSI and virtualization solutions

Synology iSCSI storage supports most virtualization solutions such as VMware vSphere, Microsoft Hyper-V, Citrix Xen Server, and OpenStack Cinder to enhance work efficiency. You can run and manage multiple virtual machines on Windows, Linux, or DSM using Virtual Machine Manager.

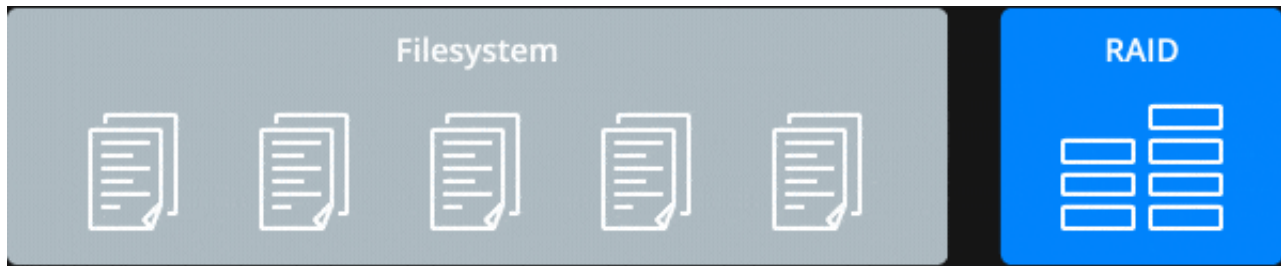# Next-generation file system for better data protection

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

Ultimate Backup Solution

RS1619xs+ 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

Digital asset protection

Powered by Synology DiskStation Manager (DSM), Synology NAS offers advanced security measures to protect against sudden data loss and potential security holes.

Security Advisor

Analyze system settings, password strength and network preferences, and remove any possible malware.

AppArmor

A kernel-level enhancement that blocks malicious programs from accessing unauthorized system resources.

AES 256-bit encryption

Encrypt shared folders and network data transmission to avoid unauthorized data access.

2-step verification

Prevent others from logging in to your DSM by generating a six-digit one-time password (OTP) on your mobile device.

Powered by Synology DiskStation Manager

DSM UI

Award-winning operating system with an intuitive user interface and powerful capabilities.

Public Cloud Integration

Back up and synchronize data easily between public cloud accounts and your NAS.

Synology High Availability

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

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.

<div align="center">**Security**</div>

Shield your Synology NAS from the most sophisticated threats with industry-leading security solutions.

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	256
	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

Volume Expansion with Larger HDDs	- Basic to RAID 5 - RAID 1 to RAID 5 - RAID 5 to RAID 6 - RAID F1 - RAID 1 - RAID 5 - RAID 6 - RAID 10
Volume Expansion by Adding a HDD	- RAID F1 - JBOD - RAID 5 - RAID 6 (with Expansion Unit)
Global Hot Spare Supported RAID Type	- RAID F1 - RAID 1 - RAID 5 - RAID 6 (with Expansion Unit) - RAID 10 (with Expansion Unit)
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 2016	
	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 DSM Technical Specifications.

Add-on Packages view the complete package list
Central Management System

Synology Chat	Suggested Users	400
	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	5 (Additional accounts require purchase of licenses)

	Suggested Users	5,000
	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](#)	DLNA Compliance	
[Synology Photos](#)	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, 1050 FPS 3M: 60 channels, 600 FPS 5M: 40 channels, 400 FPS 4K: 28 channels, 280 FPS
	Suggested Maximum IP Cameras and Total FPS (H.265)	1080p: 75 channels, 2250 FPS 3M: 75 channels, 1125 FPS 5M: 70 channels, 700 FPS 4K: 49 channels, 490 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 Model	Intel Xeon D-1527
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.2 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	Yes
Memory	8 GB DDR4 ECC UDIMM
Drive Bays	4
Hot Swappable Drive	Yes
RJ-45 1GbE LAN Port	4
USB 3.2 Gen 1 Port	2
System Fan	40 mm x 40 mm x 2 pcs
Power Supply Unit / Adapter	150 watts
Total Memory Slots	4
Maximum Memory Capacity	64 GB (16 GB x 4)
Expansion Port	1
PCIe Expansion	1 x Gen3 x8 slot (x8 link)
Form Factor (RU)	1U
Redundant Power Supply	Yes

Product Gallery