

RackStation

RS3618xs



Synology RackStation RS3618xs is a reliable, superior-performance network-attached storage solution for large-scale enterprises with demanding business applications. RS3618xs simplies data management, optimizes virtualization environments, and rapidly expands storage capacity with minimal time investment in setup and maintenance. Synology RS3618xs is backed by Synology's 5-year limited warranty.

High-speed Scalable Storage Server

Synology RS3618xs is a 2U 12-bay rackmount network-attached storage solution equipped with a **quad-core** processor and **8GB DDR4 memory (expandable up to 64GB)**, meeting the needs for large-scale businesses. With 10GbE Link Aggregation enabled, RS3618xs delivers great performance at over **3,900 MB/s** sequential reading throughput and **143,500 iSCSI random IOPS**¹ under a RAID 5 con guration. Encrypted data throughput can reach over **2,300 MB/s in reading** and **1,177 MB/s in writing**¹.

RS3618xs provides great exibility to easily scale up to **36 drives** when connected to two Synology **RX1217 or RX1217RP**2 expansion units. Storage capacity can be expanded according to your business needs with minimal e ort.

Btrfs: Next Generation Storage Efficiency

RS3618xs introduces the **Btrfs** le system, bringing the most advanced storage technologies to meet the management needs of modern businesses:

- Advanced snapshot technology with customizable backup schedule allows up to 1,024 copies of shared folder backups in a minimum 5-minute interval without occupying huge storage capacity and system resources.
- File or folder level data restoration brings huge conveniences and saves time for users who wish to restore only a specience level details.
- Flexible Shared Folder/User Quota System provides comprehensive quota control over all user accounts and shared folders.
- File self-healing: Btrfs le system is able to auto-detect corrupted les with mirrored metadata, and recover broken data using the supported RAID volumes, which include RAID1, 5, 6, 10 and RAID F1.

Highlights

- Reliable centralized storage solution for large scale businesses
- Quad-core CPU with AES-NI and 8GB (up to 64GB) DDR4 ECC UDIMM
- Ultra-high performance of over 3,900 MB/s sequential reading and 143,500 iSCSI random read IOPS¹, capable of installing optional 10GbE/40GbE NICs
- Scalable up to 36 drives with Synology RX1217/RX1217RP²
- Complete virtualization solution with Synology Virtual Machine Manager
- Dynamic iSCSI/NFS storage for VMware, Windows Hyper-V, Citrix, and OpenStack
- Backed by Synology's 5-year limited warranty & Synology Replacement Service (SRS)³

Comprehensive Business Applications

Powered by the innovative Synology DiskStation Manager (DSM), RS3618xs comes fully-equipped with applications and features designed speci cally for large-scale businesses:

- Windows® AD and LDAP support allows easy integration with existing business directory services without recreating user accounts.
- **Windows ACL** support provides ne-grained access control and e cient privilege settings, allowing RS3618xs to t seamlessly into current infrastructure.
- Internet le access is simpli ed by the encrypted FTP server and the web-based le
 explorer, Synology File Station. HTTPS, rewall, and IP auto-block support ensure le
 sharing over the Internet is protected with a high level of security.
- **Application Privileges** controls access to applications and packages based on each individual account, user group, or IP address.
- MailPlus allows your business to set up a secure, reliable, and private mail server while giving your employees a modern mail client for receiving and sending messages.

Effortless Virtualization Environment

Synology iSCSI storage fully supports most virtualization solutions to enhance work e ciency with a simple management interface. VMware vSphere™ 6.5 and VAAI integration helps o oad storage operations and optimizes computation e ciency. Windows O oaded Data Transfer (ODX) speeds up data transfer and migration rates, while OpenStack Cinder support turns your Synology NAS into a block-based storage component.

Synology's **Virtual Machine Manager** adds unlimited capabilities to your NAS. Set up and run various virtual machines, including **Windows, Linux**, and **Virtual DSM** so that you can test new software versions in a sandbox environment, isolate your customers' machines, and increase the exibility of your RS3618xs with reduced hardware deployment and maintenance costs.

Running on Synology DiskStation Manager (DSM)

Synology DiskStation Manager (DSM) is a web-based operating system tailor-made for every Synology NAS. Featuring an intuitive multitasking user interface, DSM provides simple desktop-like experience to minimize e ort in exploring and managing your Synology NAS.

The built-in **Package Center** allows you to download and install a variety of packages designed specifically for your unique needs, ranging from the backup, virtualization, productivity, safeguard security and utilities.

With all the built-in and add-on features, DSM provides comprehensive and ne-grained controls over your RS3618xs, helping you maximize productivity and make the best out of your digital assets. All will happen with just a few clicks.







Next-Generation File System

A modern le system designed to address obstacles often encountered in enterprise storage systems. Safeguarding data integrity through metadata mirroring, self-healing and snapshot replication.

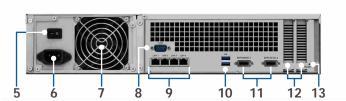


Synology Collaboration Suite

A powerful and secure private cloud solution for business collaboration and organization, o ering intuitive yet e ective management options.

Front Rear





1	Power button and indicator	2	Beep o button	3	Drive tray	4	Drive status indicator	
5	PSU on/o switch	6	Power port	7	PSU fan	8	Console port	
9	1GbE RJ-45 port	10	USB 3.0 port	11	Expansion port	12	PCIe expansion slot	
13	RESET button							

Technical Specifications

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CPU	Intel Xeon D-1521 quad-core 2.4GHz, Turbo Boost up to 2.7GHz					
Hardware encryption engine	Yes (AES-NI)					
Memory	8GB DDR4-2133 ECC UDIMM (expandable up to 64GB)					
Compatible drive type	12 x 3.5" or 2.5" SATA SSD/HDD (drives not included)					
External port	2 x USB 3.0 port2 x Expansion port					
Size (HxWxD)	 88 x 430.5 x 692 mm 88 x 482 x 724 mm (with server ears) 					
Weight	14.5 kg					
LAN	4 x 1GbE (RJ-45)					
PCIe 3.0 slot	• x8 slot x 2 (8-lane) • High-performance network interface card support					
Wake on LAN/WAN	Yes					
Scheduled power on/o	Yes					
System fan	4 (80 x 80 x 32 mm)					
AC input power voltage	100V to 240V AC					
Power frequency	50/60Hz, single phase					
Operating temperature	5°C to 35°C (40°F to 95°F)					
Storage temperature	-20°C to 60°C (-5°F to 140°F)					
Relative humidity	5% to 95% RH					
Maximum operating altitude	5,000 m (16,400 ft)					

General DSM Specification

Networking protocol	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN ™, L2TP)				
File system	 Internal: Btrfs, ext4 External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT⁴ 				
Supported RAID type	Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10, RAID F1				
Storage management	 Maximum internal volumes: 1,024 Maximum iSCSI targets: 64 Maximum iSCSI LUNs: 512 iSCSI LUN clone/snapshot support 				
SSD cache	SSD read-write cache support				

File sharing capability	 Maximum local user accounts: 16,000 Maximum local groups: 512 Maximum shared folders: 512 Maximum concurrent SMB/NFS/AFP/FTP connections: 2,000 				
Privilege	Windows Access Control List (ACL), application privilege				
Directory service	Windows [®] AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration				
Virtualization	VMware vSphere® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack®				
Security	Firewall, encrypted shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTF (Customizable cipher suite)				
Supported client	Windows 7 and 10, Mac OS X® 10.11 onwards				
Supported browser	Chrome®, Firefox®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards)				
Interface Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Português do Brasil, Português Europeu, Türkçe, eský, 日本語, 한국어, 繁體中文, 简体中文				

Packages and Applications

File Station	Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived les, bandwidth control for specic users or groups, creating sharing links, transfer logs				
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs				
Universal Search	O er global search into applications and les				
Hyper Backup	Support local backup, network backup, and backup data to public clouds				
Active Backup for Server	Centralize data backup for Windows and Linux servers without client installation				
Backup tools	DSM con guration backup, macOS Time Machine support, Cloud Station Backup Shared folder sync - maximum tasks: 16				
Cloud Station Suite	Sync data between multiple platforms by installing the client utilities on Windows, Mac, Linux, Android and iOS devices, while retaining up to 32 historical versions of les Maximum concurrent le transfers: 2,000				
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Drive, Amazon S3-compatible storage, Baidu cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk				
Surveillance Station	Maximum IP cameras: 75 (total of 2,250 FPS at 720p, H.264) (includes two free camera licenses; additional cameras require the purchasing of additional licenses)				
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM				
High Availability Manager	Reduce service downtime by setting up two identical NAS into one high-availability cluster				
Snapshot Replication	 Maximum replications: 64 Maximum shared folder snapshots: 1,024 Maximum system snapshots: 65,536 				
Active Directory Server	A exible and cost-e ective domain controller solution				
CMS	Provide a single interface to manage and monitor multiple Synology NAS				
VPN Server	Maximum connections: 30, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec				
MailPlus Server	Secure, reliable, and private mail solution with high-availability, load balancing, security and litering design (Includes 5 free email account licenses; additional accounts require the purchasing of additional licenses)				
MailPlus	Intuitive webmail interface for MailPlus Server, customizable mail labels, Iters, and user interface				
Collaboration tools	 Chat maximum users: 4,000 Office maximum users: 1,600, maximum simultaneous editing users: 100 Calendar: support CalDAV and access via mobile devices 				
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments				
Storage Analyzer	Volume and quota usage, total size of les, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modilled les				
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan				
Antivirus Essential	Full system scan, scheduled scan, white list customization, virus de nition auto update				
Download Station	Supported download protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL Maximum concurrent download tasks: 80				
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, 3rd-party applications support				
Other packages	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, additional 3rd-party packages are available in Package Center				

Environment and Packaging

Environment safety	RoHS compliant				
Package content	 RS3618xs main unit x 1 Quick Installation Guide x 1 Accessory pack x 1 AC power cord x 1 				
Optional accessories	8GB / 16GB DDR4-2133 ECC UDIMM (RAMEC2133DDR4-8G / RAMEC2133DDR4-16G) Synology E10G17-F2 / E10G15-F1 10Gbps Ethernet adapters Expansion Unit RX1217/RX1217RP RKS1317-Rail Kit Sliding VisualStation VS360HD, VS960HD Surveillance Device License Pack MailPlus License Pack Virtual DSM License Pack				
Warranty	5 years				

^{*}Model speci cations are subject to change without notice. Please refer to www.synology.com for the latest information.

- Performance gures may vary depending on environment, usage, and con guration.
 RS3618xs supports two Synology Expansion Unit RX1217/RX1217RP, sold separately.
- 3. Synology Replacement Service (SRS) is available in selected countries only. For more information about SRS, please visit srs.synology.com.
- 4. exFAT Access is purchased separately in Package Center.

SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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