



Ultra-High performance NAS Server Scales over 400TB for Large Scale Business



Synology® RackStation RS10613xs+ offers ultra-high performance, scalable and full-featured network attached storage solution for large scale businesses that require an efficient way to centralize data protection, simplify data management, deploy virtualization solutions, and rapidly expand storage capacity with minimal time spent on setup and management. Synology RS10613xs+ is backed with Synology's 3-year limited warranty.

Highlights

- Ultra-high performance of 2000+ MB/sec throughput and 200,000+ IOPS¹
- Scale over 400TB with Synology RX1213sas²
- Dual 10GbE ports support (with PCI-E add-on card)
- VMware®, Citrix®, Microsoft® Hyper-V® compliance
- CPU Passive Cooling Technology & System Fan Redundancy
- Expandable ECC RAM module (up to 8GB)
- Running on Synology DiskStation Manager (DSM)

Ultra-High Performance

With Link Aggregation, Synology RS10613xs+ delivers the high performance of over 2000 MB/sec throughput and 200,000 IOPS under RAID 5 configuration¹. In addition to the default 4 Gigabit ports, dual 10GbE are supported with the add-on PCI Express x8 Gen2 Network Interface Card to maximize the system bandwidth. RS10613xs+ is able to bring you the ultra-high performance that your data-intensive application demands on the storage system.

High Reliability & Availability

Reliable functioning of commercial systems is of paramount concern to business users that depending on these servers everyday. Synology RS10613xs+ is now introduced with the fanless CPU heatsink to prevent the single point of failure, with the CPU passive cooling technology RS10613xs+ achieves the high reliability system design. When system detects fan failure, the built-in redundancy mechanism will spin up the functional fan(s) to properly ventilate the system, and support continuous operations until the replacement fan arrives. Therefore, potential system damages are minimized and system availability is maximized.

The network ports with failover support combining with hot-swappable drives will ensure continual service uptime during drives replacement or unexpected LAN failure. The ECC RAM module on RS10613xs+ will detect and correct errors that occur during data transmission. Supporting up to 8GB ECC RAM, RS10613xs+ provides secure data protection and performance to meet the need of large scale businesses for a strong foundation to face mission-critical tasks.

Robust Scalability over 400 TB

Synology RS10613xs+ is also designed to grow with your business and provides the ability to seamlessly expand a single volume over 400TB on the fly. When the storage capacity of RS10613xs+ is nearing its limits, it can easily be expanded with Synology RX1213sas². It is connected to RS10613xs+ via a SAS cable.

Management of the large storage space on RS10613xs+ is simple and flexible. Multiple Volumes on RAID allows users to create more than one volume on a RAID structure, providing a flexible and efficient way to manage the storage across all hard drives. When the need for more space arises, the volume could be easily expanded without any service disruption.



RS10613xs+



Unified Storage and Virtualization Ready

Synology RS10613xs+ runs on the novel operating system, Synology DiskStation Manager (DSM), which integrates file-level and block-level storage in one unified storage system platform providing management simplicity to reduce your total cost of ownership.

Comprehensive network protocol support (CIFS/SMB, AFP and NFS) assures seamless file sharing across Windows®, Mac®, and Linux® platforms. iSCSI is also supported as the ideal alternative to SAN solution for business.

Affordable and cost-effective iSCSI allows large scale business to consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks. With the iSCSI support, RS10613xs+ provides a seamless storage solution for virtualization servers, such as VMware, Citrix, and Hyper-V. RS10613xs+ is also certified with the latest VMware vSphere® 5, supporting VMFS-5 and extended storage migration capability with better flexibility and higher performance in VMware virtualization platform.

Thin Provisioning is available for file-level iSCSI, enabling administrators to oversubscribe provision and then grow storage space as needed in safety. With Thin Provisioning, users are able to maximize the storage utilization to reduce the total cost of ownership for the storage system.

Full-featured Business Applications

The Synology RS10613xs+ offers applications and features designed specifically for large scale business. Windows ADS and LDAP integration allows RS10613xs+ to quickly and easily fit in an existing business network environment without recreating user accounts. Windows ACL support on RS10613xs+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on RS10613xs+ through their familiar Windows user interface.

The built-in backup application is provided for backing up data in the RS10613xs+ to another Synology NAS, expansion unit, any rsync server via an encrypted transmission. It is even possible to back up from RS10613xs+ to the cloud with the Amazon S3® support. Shared Folder Sync is also available in DSM for implementing disaster recovery plans. With Shared Folder Sync, RS10613xs+ is able to replicate data to another DiskStation within the Intranet or across the Internet, helping to reduce the risk of business interruption.

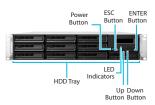
Energy Efficient Design

Synology RS10613xs+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, RS10613xs+consumes a relatively low amount of power and have the hard drives hibernate when not in use.

All Synology products are produced with RoHS compliant parts and packed with recyclable packing materials. Synology acknowledges the responsibility as a global citizen to continually work to reduce the environmental impact of every product produced.

Power Frequency: 50Hz to 60Hz, Single Phase Operating Temperature: 5°C to 35°C (40°F to 95°F) Storage Temperature: 10°C to 70°C (15°F to 155°F) Relative Humidity: 5% to 55% RH Max Operating Altitude: 10,000 feet Power Consumption: 115.5W (Access): 104.5W (Idle): 57.2W (HDD Hilbernatic Class A, CE Class A, BSMI Class A 3'year Limited Warranty

CONNECTIONS & BUTTONS



Technical Specifications

Hardware

Applications

File Station

Virtual Drive

Remote Folder

FTP Server

Bandwidth Control
Custom FTP Passive Port Range
Anonymous FTP
Transfer Log

Directory Server

LDAP Directory Server

Backup and Restore LDAP Database

VPN Server

Maximum Connections: 20

VPN Method: PPTP, OpenVPN™

Address Reservation

Mail Station

Add-on Packages

Surveillance Station

CPU: Quad CoreTM 3.1 GHz, with floating point RAM Size: 4GB ECC RAM (Expandable, up to 8GB) Internal HDD/SSD: 2.5" or 3.5" FATA(III) X 10 (hard drives not included) Max Internal Capacity: 30TB (10X 3TB hard drives)³

Max internal capacity; 3016 (1M.3 hard drives):
 External HDD Interface: 4X USB ports
 Expansion Interface: 2X Expansion port (for cable redundancy only)
 Rail Kit: Synology 2U Rail Kit Sliding (optional)
 Size: (H.X W.X D): 88mm X.445mm X.570mm
 Weight: 12.77kg

Mail Server
- Supported Mail Server Protocol : POP3, SMTP, IMAP

Jun Verminice Station

- Default IP cam #: 1

- MAX IP cam # (Iii.emse required); 20 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.)

DHCP Server
Independent DHCP Server on Different Network Interfaces
Multiple Subnets Support

Hardware Encryption Engine LAN: 4X Gigabit (optional 10 GbE X2 add-on card is supported)

L DAVI-A Gigabit (optional II ubb x2 add-on card i Link Aggregator) with x8 0mm) Wireless Support (wireless dongles not included) Wake on LAWWAN Note Level-1 do dB(A)* Hot Swappable HDD Redundant Power Supply AC Input Power Voltage: 100V to 240V

Web Station

Virtual Host (up to 30 websites)

PHP/MySQL®

3rd-Party Applications Support

Scheduled Scan
 White List Customization
 Virus Definition Auto Update

Time Backup - Maximum Task Number: 8

Multiple File Versions Retained Instant File Restoration

Cloud Station

Maximum User Accounts: 16

Retain Historical and Deleted File Versions

HiDrive Backup
- Backup DiskStation data to STRATO HiDrive online storage

Backup DiskStation data to STRATO HiDrive online storage
 Photo Station
 Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW (arw, srf. srg. dcr, k2s, kdc, cr2, crw, nef, mmr, wpt. pef, raf, 3fr, erf, mef, mos, orf, rv2, drng, x8f)
 Supported Video Format 3G2, 3G9, ASF, AVI, DAT, DIVX, FLV.
 MAY, MOY, MR4, MPEG, MPG, QT, WMV, XvID, RM, RMVB, VOB, RY30, RY40, AC3, AMR, WMA3, Dut roat add download the following video Formats: RM, RMW9, VOB, RY30, RY40, AC3, AMR, WMA3, but not able to play it in Photo Station as compressed Flash* videos.

Printer Server

• Max Printer #: 2

• Printing Protocols: LPR, CIFS, Apple* AirPrint**, Google Cloud Print**, Multi Functional Print Server (Only Post Script USB printers are supported in MAC environment)

iOS/Android™ Applications

DS photo+

DS audio

DS cam

DS file

DS finder

Windows Phone Applications
- DS finder

· Internet Radio: SHOUTcast, Radioio

Tunes* Server

- Supported Audio Format: MP3, M4A, M4P, WAV, AJF (The music in WAV and AJF format can be streamed, but the metadata (ex: title, album) may not be indexed on the Tunes.)

- Supported Video Format: M4W, MOV, MP4

- Supported Video Format: M3U, WPL

Supported Playists Format: M3U, WPL
 DINA"/UPP Media Server
 PS3"/Xbox 360" Support
 Supported Audio Format: AAC, FLAC, M4A, MP3, Ogg Vorbis, PCM, WAV, WMA, WMA VBR, WMA PRO, WMA Lossless
 Supported Video Format: 367, B2G, ASF, RVI, DAT, DIVK, DVR-MS, ISO, M2T, M2TS, M44V, MIX, MMY, MP4G, IMPEGZ, MPEGA, MTS, MOV. QT, SMP FT. TRP1, SV, ORG, WMM, XVID, RVID, RVID, RVID, ACR

AMR, WMAS, Supported Image Format: BMP, JPG (jpe, jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO Supported Subtitles Format: srt, psb, smi, ass, ssa, sub, idx, ifo

Download Station

- Supported Download Protocols: BT/HTTP/FTP/NZB/eMule

- Maximum Concurrent Download Tasks: 80

Packages by 3rd Party
- HASP, phpMyAdmin, Webalizer, Logitech® Media Server, WordPress, OpenERP®

Scheduled Power On/Off
 Custom Management UI HTTP/HTTPS Ports

HDD Management
Deep Sleep for Expansion Unit

Deep Sleep for Expansion Unit HDD Hibernation S.M.A.R.T. Dynamic Bad Sector Mapping

Utilities
- Synology Assistant
- Synology Data Replicator

Support Browsers

Chrome™

Internet Explorer® 7, 8, and 9

Firefox®

Safari® 4 and 5 (Mac)

Audio Station

- Supported Audio Format: (USB Mode) AAC, FLAC, M4A, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B

- Supported Playlist Format: M3U, WPL

Antivirus Essential
Full System Scan General Specifications

Networking Protocols
- CIFS, AFP, FTP, ISCSI, Telnet, SSH, NFS, SNMP, WebDAV, CalDAV

Syslog Server
- SSL Connection
- Log Rotation: 6 months, 1 year, 2 years, 3 years
- Email Notification

Mail Station

Webmail Interface for Mail Server

Receiving Mails from Multiple POP3 Mailboxes

Customizable SMTP Server

File System

EXT4
 EXT3 (External Disk Only)

FAT (External Disk Only)
 NTFS (External Disk Read Only)

Volume Management
- Synology Hybrid RAID
- Max Volume #: 1024

Max iSCSI Tanget #: 64
Max iSCSI LUN #: 512
Volume Type Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare,
RAID 6, RAID 10

RAID 6, RAID 10
RAID Migration: from Basic to RAID 1, Basic to RAID 5, Basic to
RAID 5+Spare, RAID 1 to RAID 5, RAID 1 to RAID 5+Spare, RAID 5
to RAID 5+Spare, RAID 5 to RAID 6
Expand RAID 1, RAID 5, RAID 5+Spare or RAID 6 with Larger

Hard Drives
Expand RAID 5, RAID 5+Spare or RAID 6 by Adding a Hard
Drive On The Fly

Volume Expansion with RX1213sas

File Sharing Capability

Max User Account: 4096

Max Group: 512

Max Shared Folder: 512

Environment
RoHS Compliant Package Content
R510613xs+ Main Unit
Installation Disc

 Max Concurrent Connections (CIFS, FTP, AFP): 1024 **Environment and Packaging**

Tested with dual 10GbE connection with Link Aggregation. The performance figures could vary on different environments.
 RS10613xs+ supports up to two Synology RX1213sas, purchased

PC / Mac / Linux

Windows Access Control List (ACL) Support

Windows ADS Domain Integration
Domain Users login via Samba/AFP/FTP/File Station

Backup Solutions

Network Backup

Shared Folder Sync

Local Backup
Time Backup
Desktop Backup (using Synology Data Replicator 3 or Apple
Time Machine® backup application)

· 3rd-Party Backup Support

Security FTP over SSL/TLS

IP Auto-Block Firewall

Encrypted Network Backup over Rsync HTTPS Connection

Welcome Note
 Assembling Kit
 AC Power Cord: 2

Optional Accessories

Management

DSM Upgrade

Email Notification

SMS Notification

Customized User Quota

DDNS Support

PPPOE

Resource Monitor

UPS Management

Supported Clients

Windows XP onward

Mac OS X® 10.5 onward

Ubuntu 9.04 onward

Language

 English, Deutsch, Francais, Italiano, Español, Dansk. Ligini, Deutschi, Français, Inaliani, Capanoli, Dalisk, Morsk, Svensk, Nederlands, Pycckniй, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

The actual capacity will differ according to volume types. Fully loaded with Seagate* 1TB ST31000520AS hard drive(s) in idle; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the DiskStation front and rear; Background noise: 17.2

Camera License Pack
 Rail Kit (Synology 2U Rail Kit Sliding)
 2GB ECC RAM Module
 Expansion Unit (RX1213sas)

dB(A); Temperature: 23.6°C; Humidity: 58.2%; More details about dB(A) value, check http://www.memtechacoustical.com/facts.asp Measured with 10 Western Digital* 2TB WD2002FYPS hard drive. The figures could vary on different environments.

IP Camera

SYNOLOGY INC.

Founded in 2000, Synology is a young and energetic company dedicated to developing high-performance, reliable, versatile, and environmentally-friendly Network Attached Storage (NAS) products. Our goal is to deliver user-friendly solutions and solid customer service to satisfy the needs of businesses, home offices, individual users and families.

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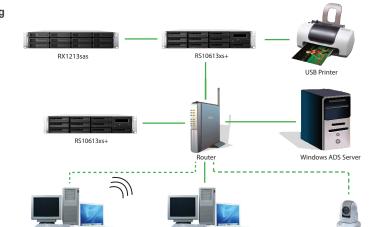
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