Synology RackStation RS2212+/RS2212RP+

2U High performance NAS Server Scales up to 22 Drives for Enterprise Users

RS2212RP+ Comes with Redundant Power Supply.

Synology® RackStation RS2212+/RS2212RP+ offers a high-performance, scalable, and full-featured network attached storage solution that meets the needs of business that requires an efficient way to centralize data protection, simplify data management, and rapidly scale storage capacity with minimal time spent on setup and management. The Synology RS2212+/RS2212RP+ is backed with Synology's 3-year limited warranty.

Highlights:

- 202.26 MB/sec Reading, 194.37 MB/sec Writing[1]
- Scale up to 22 Drives with Synology RX1211/RX1211RP
- CPU Passive Cooling Technology & System Fan Redundancy
- 2 LAN with Failover and Link Aggregation Support
- Windows® ADS and ACL Support
- VMware®, Citrix®, Microsoft® Hyper-V® compliance
- Running on Synology DiskStation Manager (DSM)

Experience High Performance Data Throughput

With the Link Aggregation enabled, Synology RS2212+/RS2212RP+ delivers an average 202.26 MB/sec reading speed under RAID 5 configuration in a Windows environment, and 194.37 MB/sec writing[1]. Synology RS2212+/RS2212RP+ bring you the high performance that your data-intensive applications demand for a storage system, and offer the ability to scale the storage capacity.

High Reliability for Critical Business Applications

Businesses need a strong foundation to face mission-critical tasks. Synology RS2212+/RS2212RP+ deliver high data availability to ensure access when it's needed. The 2 LAN with failover support and hot-swappable drives will ensure continual service uptime should the drives need replacement or the unexpected LAN failure.

CPU is the heart of any system, and RS2212+/RS2212RP+ incorporates a passive cooling structure to avoid the dependency of a dedicated processor cooling fan, and mitigate any critical point of failure. When system detects fan fails, 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.

Robust & Affordable Scalability Up to 88 TB

When the storage capacity of the Synology RS2212+/RS2212RP+ is nearing its limits, it can easily be expanded by the Synology RX1211/RX1211RP. The Synology RS2212+/RS2212RP+ securely connect to the Synology RX1211/RX1211RP with specially-designed connection cable which carries SATA signals to ensure maximum throughput. The Synology RX1211/RX1211RP can directly expand the existing storage on the Synology RS2212+/RS2212RP+ to a maximum 88 TB capacity.

RS2212+/RS2212RP+

RX1211/RX1211RP

Fit to Business Environment

Windows ADS integration allows the Synology RS2212+/RS2212RP+ to quickly and easily fit in an existing business network environment with no need to recreate users' accounts on the Synology RS2212+/RS2212RP+. The User Home feature minimizes the administrator's effort in creating a private shared folder for a large amount of users.

Windows ACL support on RS2212+/RS2212RP+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on RS2212+/RS2212RP+ through their familiar Windows user interface. The privileges set on Windows ACL will be applied to all access entries, including AFP, FTP, File Station, NFS and WebDAV. The secure privilege offers IT staff peace of mind, no worries about any loopholes.

iSCSI and Virtualization Ready

With the iSCSI support in DSM, the Synology RS2212+/RS2212RP+ provides a seamless storage solution for virtualization servers, such as VMware, Hyper-V, and Citrix. It is the ideal alternative to SAN solution for businesses. Affordable and cost-effective, iSCSI allows SMB users to consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks.

Full-featured Business Applications

The Synology RS2212+/RS2212RP+ runs on the renowned operating system, Synology DSM, offering comprehensive applications and features designed specifically for SMBs. Comprehensive network protocol support assures seamless file sharing across Windows, Mac®, and Linux® platforms.

Internet file access is simplified by the encrypted FTP server and the web-based file explorer, Synology File Station. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected at a high security level.

A wealth of additional features allows the Synology RS2212+/RS2212RP+ to replace several pieces of network hardware. Synology Web Station with support for PHP/MySQL® content allows for the hosting of up to 30 websites on a single Synology RS2212+/RS2212RP+. Synology Surveillance Station offers a centralized interface to safeguard the office environments by deploying IP cameras throughout the network. RS2212+/RS2212RP+ features a mail server that can work with mail clients such as Mac Mail or Windows Outlook®, and the USB printer sharing capability minimizes businesses' printing cost by sharing printing resources throughout the office.

Energy Efficient Design

Synology RS2212+/RS2212RP+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, RS2212+/RS2212RP+ consume a relatively low amount of power. The support of Wake on LAN/WAN and scheduled power on and off can further reduce power consumption and operation cost. HDD hibernation can be configured to take effect automatically when the system has been inactive for a specified period of time. This not only saves energy but also extends the lifespan of the hard disks.

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.

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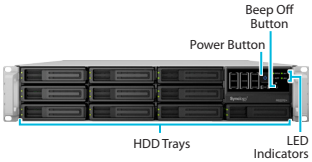
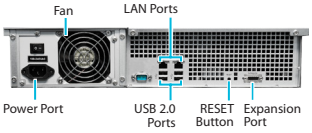
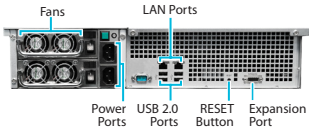
CONNECTIONS & BUTTONS



RS2212+:



RS2212RP+:



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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Technical Specifications

Hardware

- CPU Frequency: Dual Core™ 2.13 GHz, with floating point
- RAM Size: DDR3 1GB (Scalable up to 3GB)
- Internal HDD/SSD: 3.5" or 2.5" SATA(II) X10 (hard drives not included)
- Max Internal Capacity: 40TB (10X 4TB hard drives) (The actual capacity differs according to volume types.)
- External HDD Interface: 4X USB 2.0 ports
- Expansion Interface: 1X Expansion port
- Rail Kit: Synology 2U Rail Kit Sliding (optional)
- Size (H X W X D):
  - RS2212+: 88mm X 445mm X 570mm
  - RS2212RP+: 88mm X 445mm X 570mm
- Weight:
  - RS2212+: 12.2Kg
  - RS2212RP+: 14.3Kg
- LAN: 2X Gigabit
- Fan: 4X (80mm X 80mm)
- Link Aggregation
- Wake on LAN
- Noise Level[2]:
  - RS2212+: 39.3 dB(A)
  - RS2212RP+: 40.4 dB(A)
- Wireless Support (wireless dongles not included)
- Hot Swappable HDD
- Redundant Power Supply: RS2212RP+ only
- Power Recovery
- AC Input Power Voltage: 100V to 240V
- 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 95% RH
- Max Operating Altitude: 10,000 feet
- Power Consumption[3]: 88W (Access); 36W (HDD Hibernation)
- Certification: FCC Class A, CE Class A, BSMI Class A
- 3-year Limited Warranty

Applications

File Browser
- Virtual Drive
- Remote Folder

File Station

FTP Server
- Bandwidth Control
- Custom FTP Passive Port Range
- Anonymous FTP
- Transfer Log

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

Web Station
- Virtual Host (up to 30 websites)
- PHP/MySQL®
- Alternative HTTP Error Page
- 3rd-Party Applications Support

Surveillance Station
- Default IP cam #: 1
- MAX IP cam # (licenses required): 20 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.)

Photo Station
- Facebook Integration
- Supported Image Format: BMP, JPG (jpe, jpeg), GIF, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f)
- Supported Video Format: 3G2, 3GP, ASF, AVI, DAT, DivX, FLV, M4V, MOV, MP4, MPEG, MPG, QT, WMV, XviD, RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3 (User can click and download the following video formats: RM, RMVB, VOB, RV30, RV40, AC3, AMR, WMA3, but not able to play it in Photo Station as compressed Flash® video.)

Download Station
- Supported Download Protocols: BT/HTTP/FTP/NZB/eMule
- Custom BT Port
- BT / eMule Bandwidth Control

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
- Internet Radio: SHOUTcast®, Radioio®

DLNA®/UPnP® Media Server
- DLNA Certified
- 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: 3GP, 3G2, ASF, AVI, DAT, DivX, DVR-MS, ISO, M2T, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, XviD, RMVB
- 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

iTunes® Server
- Supported Audio Format: MP3, M4A, M4P, WAV, AIF (The music in WAV and AIF format can be streamed, but the metadata (ex: title, album) may not be indexed on the iTunes.)
- Supported Video Format: M4V, MOV, MP4
- Supported Playlist Format: M3U, WPL

Print Server
- Max Printer #: 2
- Printing Protocols: LPR, CIFS, AppleTalk®, Apple® AirPrint™, Google Cloud Print™ (For Mac users, only PostScript USB printers are supported.)
- Multi Functional Print Server

Synology Packages
- Mail Station 2
- Logitech® Media Server
- Webalizer
- phpMyAdmin
- Time Backup
- VPN Server
- WordPress®
- Syslog Server
- Directory Server
- HiDrive® Backup
- OpenERP®
- HASP

iOS® and Android™ Applications
- DS photo+
- DS audio
- DS cam
- DS file
- DS finder

General Specifications

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

File System
- EXT4
- EXT3 (External Disk Only)
- FAT (External Disk Only)
- NTFS (External Disk Read Only)

Volume Management
- Synology Hybrid RAID
- Max Volume #: 512
- Max iSCSI Target #: 32
- Max iSCSI LUN #: 256
- Volume Type: Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Spare, 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 Synology Hybrid RAID, RAID 1, RAID 5, RAID 5+Spare or RAID 6 with Larger Hard Drives
- Expand Synology Hybrid RAID, RAID 5, RAID 5+Spare or RAID 6 by Adding a Hard Drive On The Fly
- Volume Expansion with RX1211/RX1211RP

File Sharing Capability
- Max User Account: 2048
- Max Groups: 256
- Max Shared Folders: 256
- Max Concurrent Connections (CIFS, FTP, AFP): 512

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

Management
- DSM Update
- Email Notification
- SMS Notification
- Customized User Quota
- DDNS Support
- PPPoE
- Resource Monitor
- UPS Management
- Scheduled Power On/Off
- Custom Management UI HTTP/HTTPS Ports

HDD Management
- HDD Hibernation
- S.M.A.R.T.
- Dynamic Bad Sector Mapping

Utilities
- Synology Assistant
- Synology Data Replicator

Support Browsers
- Chrome™
- Internet Explorer® 7/8/9
- Firefox®
- Safari® 4/5 (Mac)

Supported Clients
- Windows XP onward
- Mac OS X® 10.5 onward
- Ubuntu 9.04 onward

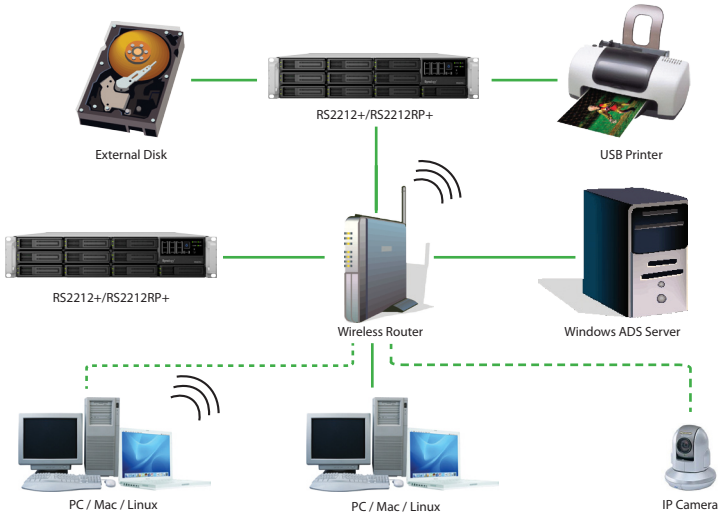
Language
- English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

Environment and Packaging

Environment
- RoHS Compliant

Package Content
- RS2212+/RS2212RP+ Main Unit
- Installation DVD
- Welcome Note
- Assembling Kit
- AC Power Cord
  - RS2212+: X1
  - RS2212RP+: X2

Optional Accessories
- Remote
- Camera License Pack
- 2GB RAM Module
- Expansion Unit (RS1211/RS1211RP)
- Rail Kit (Synology 2U Rail Kit Sliding)

1. The performance figures could vary on different environments.
2. Fully loaded with Seagate® ST31000520AS hard drive(s) in operation; Two G.R.A.S. Type 40AE microphones, each set up at 1 meter away from the RackStation front and rear; Background noise: 16.0 dB(A); Temperature: 22.5°C; Humidity: 62.5%; More details about dB(A) value, check http://www.memtechacoustical.com/facts.asp
3. Measured with 10 Western Digital® 3TB WD30EZRS hard drives. The figures could vary on different environments.

Networking