

Synology RackStation RS812

Feature-rich 4-bay NAS Server for Workgroups and Offices



Synology RackStation RS812 offers an affordable and full-featured network attached storage solution, specifically designed for small business and workgroup users who need to share and protect data cost-effectively, while increasing productivity with comprehensive office applications. Running on DiskStation Manager (DSM) operating system, it delivers ease of use and variety of features.

Highlights

- Optimal Price/Performance Ratio
- 2 LAN with Failover and Link Aggregation Support
- Scale up to 8 Drives with Synology RX410
- VMware®, Citrix®, Microsoft® Hyper-V® compliance
- Power-saving with only 37 Watts in Operation
- Affordable Total Cost of Ownership
- Running on Synology DiskStation Manager (DSM)

Optimal Price/Performance Ratio

Synology RS812 delivers an average 50.6 MB/sec writing speed under RAID 5 configuration in a Windows® environment, and 109.7 MB/sec reading¹. 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. Synology RS812 provides a reliable solution for data sharing with an easy to use interface, and comprehensive office applications, including a complete backup solution making it one of the best values in 4-bay rackmount NAS devices available today.

Robust & Affordable Scalability Up to 24 TB

When the storage capacity of the Synology RS812 is nearing its capacity limit, it can easily be expanded with the Synology RX410 expansion enclosure. The Synology RX410 securely connects to the Synology RS812 via an eSATA cable with specially-designed locking connectors. The Synology RX410 expands the existing storage on the Synology RS812 up to a maximum 24 TB capacity.

Cross Platform File Sharing

Synology RS812 offers comprehensive network protocol support, assuring seamless file sharing across Windows®, Mac®, and Linux® platforms. Windows® ADS and LDAP integration allows the Synology RS812 to quickly and easily fit into an existing business network environment with no need to recreate user accounts on the Synology RS812. 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.

For users who are always on the move, Synology provides a handy app, DS file for the users of iPhone®, iPad® and Android™ phones. Anything stored on Synology RS812 can now be accessed remotely using DS file via the Internet.

iSCSI and Virtualization Ready

With the iSCSI support in DSM, the Synology RS812 provides a seamless storage solution for virtualization servers, such as VMware®, Citrix® and Hyper-V®. It is the ideal alternative to SAN solution for businesses. 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.

Complete Backup Solutions

Synology RS812 offers a centralized backup target to consolidate fragmented and unstructured data across a network. PC users can back up their data to Synology RS812 using Synology Data Replicator software, and Mac OS X® users enjoy native Apple® Time Machine® integration.

A web-based backup wizard is provided for backing up data in Synology RS812 to another Synology DiskStation or any rsync server via an encrypted protocol, or to an external hard drive via USB connection. In addition, backing up to the cloud using Amazon S3® service is supported. The add-on package, Time Backup, keeps DiskStation data in multiple versions, so IT administrators could easily keep track of them and restore to previous version whenever required.

Rich Office Applications

Synology RS812 runs on the award-winning operating system, Synology DiskStation Manager (DSM), which offers comprehensive applications and features designed specifically for office and business workgroups.

Web Station with PHP/MySQL® support allows a single Synology RS812 to host up to 30 websites and numerous 3rd party web applications, such as Content Management, Customer Relationship Management & e-Commerce system. The built-in mail server turns Synology RS812 into a dedicated mail service provider, while the add-on package, Mail Station 2, provides a webmail interface for users to access emails stored on Synology RS812.

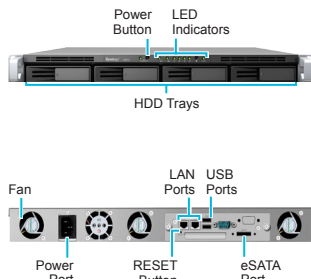
Synology Surveillance Station offers a centralized interface to manage IP cameras deployed in your office or home, allowing users traveling miles away to safeguard the environment by watching live views, recording events, and taking snapshots with a computer or mobile device.

A wealth of add-on packages allows the Synology RS812 to replace several pieces of network hardware. VPN Server offers an easy VPN solution that turns your Synology RS812 into a VPN server, providing a secure way of connecting to a private LAN at a remote location. Directory Server allows Synology RS812 to host LDAP service with centralized access control, authentication, and account management, further enhancing your office management efficiency.

Energy Efficient Design

Synology RackStations are designed and developed with energy efficiency in mind. Compared with the average PC counterparts, Synology RS812 consumes only 37 watts in operation. 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.

CONNECTIONS & BUTTONS



Technical Specifications

Hardware

- CPU Frequency: 1.6 GHz
- Hardware Encryption Engine
- RAM Size: DDR3 512MB
- Internal HDD/SSD: 3.5" or 2.5" SATA(III) 4X (hard drives not included)
- Max Internal Capacity: 16TB (4 X 4TB hard drives) (The actual capacity differs according to volume types.)
- External HDD Interface: 2X USB ports, 1X eSATA port
- Rail Kit: Synology 1U Rail Kit Sliding / Synology 1U Rail Kit Fixed (Rail Kit not included)

- Size (H X W X D): 44mm X 430.5mm X 457.5mm
- Weight: 6.9kg
- LAN: 2X Gigabit
- Link Aggregation
- Wireless Support (wireless dongles not included)
- Hot swappable HDD
- Fan: 3X (40mm X 40mm)
- 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: 6,500 feet
- Power Consumption*: 37W (Access); 14W (HDD Hibernation)
- Noise Level*: 22.6 dB(A)
- Certification: FCC Class A, CE Class A, BSMI Class A

Applications

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): 12 (1 free license to install 1 IP camera. Additional licenses can be purchased to expand the license quota.)

Photo Station

- Supported Image Format: BMP, JPG (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, MP3, Ogg Vorbis, WMA, WMA VBR; (Streaming Mode) MP3, M4A, M4B
- Supported Playlist Format: M3U, WPL
- Internet Radio: SHOUTcast, Radioio

DLNA*/UPnP* 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: 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, RV30, RV40, AC3, AMR, WMA3
- Supported Image Format: BMP, JPG (jpeg), GIF, ICO, PNG, PSD, TIF (tiff), UFO, RAW (arw, srf, sr2, dcr, k25, kdc, cr2, crw, nef, mrw, ptx, pef, raf, 3fr, erf, mef, mos, orf, rw2, dng, x3f)
- 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

Printer Server

- Max Printer #: 2
- Printing Protocols: LPR, CIFS, AppleTalk* AirPrint™ (For Mac* users, RS812 supports PostScript USB printers only)
- Multi Functional Print Server

Synology Packages

- Mail Station
- Logitech* Media Server
- Webalizer
- phpMyAdmin
- Time Backup
- VPN Server
- Directory Server

iPhone*/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

File System

- EXT4
- EXT3 (External Disk Only)
- FAT (External Disk Only)
- NTFS (External Disk Only)

Volume Management

- Synology Hybrid RAID
- Max Volume #: 256
- Max Volume Size: 16TB
- Max iSCSI Target #: 10
- Max iSCSI LUN #: 256
- Volume Type: 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 RAID 1, RAID 5, RAID 5+Spare or RAID 6 with Larger Hard Drives
- Expand RAID 5 by Adding a Hard Drive On The Fly

File Sharing Capability

- Max User Account #: 2048
- Max Group #: 256
- Max Shared Folder #: 256

- Max Concurrent Connections # (SMB, FTP, AFP): 256

Windows* ADS Domain Integration

- Domain Users login via Samba/AFP/FTP/File Station

Backup Solutions

- Network Backup
- Local Backup
- Desktop Backup (using Synology Data Replicator 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 Upgrade
- 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

- Internet Explorer* 7/8/9
- Firefox* 3.5/3.6/4/5
- Safari* 4/5 (Mac*)
- Chrome*

Supported Clients

- Windows* 2000 onward
- Mac OS X* 10.3 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

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.

Copyright © 2012, Synology Inc. All rights reserved. Synology, the Synology logo are trademarks or registered trademarks of Synology Inc. Other product and company names mentioned herein may be trademarks of their respective companies. Synology may make changes to specification and product descriptions at anytime, without notice. Printed in Taiwan, RS812-2012-ENU-REV010

<http://www.synology.com>

Headquarters

Synology Inc.
3F-3, No. 106, Chang An W. Rd., Taipei, Taiwan
Tel: +886 2 2552 1814 Fax: +886 2 2552 1824

North & South America

Synology America Corp.
2899 152nd Ave NE, Redmond, WA 98052, USA
Tel: +1 425 818 1587

Synology UK Ltd.

Davy Avenue, Knowlhill,
Milton Keynes, Bucks,
MK5 8PB, UK
Tel: +44 01908 673 709

Germany

Synology GmbH
Königsallee 92a
40212 Düsseldorf
Tel: +49 (0)211 5403 9658

Environment and Packaging

Environment

- RoHS Compliant

Package Content

- RS812 Main Unit
- Installation Disc

- The performance figures could vary on different environments.
- Measured with 4 Western Digital® 3TB WD30EZR5 hard drives. The figures could vary on different environments.

- Welcome Note
- Assembling Kit
- AC Power Cord

Optional Accessories

- Remote

- Camera License Pack
- Expansion Unit (RX410)
- Rail Kit (Synology 1U Rail Kit Sliding / Synology 1U Rail Kit Fixed)

noise: 17.2 dB(A); Temperature: 23.6°C; Humidity: 58.2%; More details about dB(A) value, check <http://www.memtechaacoustic.com/facts.asp>

Networking

