



# RackStation **RS814+/RS814RP+**

Synology® RackStation RS814+/RS814RP+ offers a high-performance, scalable, and full-featured network attached storage solution that meets the needs of small and medium-sized 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 RS814+/RS814RP+ is backed with Synology's 3-year limited warranty.

## Highlights

- **Dual Core CPU with Floating-Point Unit**
- **Over 330MB/s Reading, 196MB/s Writing<sup>1</sup>**
- **4 LAN with Failover and Link Aggregation Support**
- **2GB RAM for Boosting Multitasking Power**
- **Features USB 3.0 ports**
- **Scale up to 32TB with Synology RX410**
- **Redundant Power Supplies Ensure Service Uptime (RS814RP+ only)**
- **VMware® / Citrix® / Hyper-V® Compliance**
- **Running on Synology DiskStation Manager (DSM)**

## Experience High Performance Data Throughput

Synology's powerful 1U rackmount NAS server has embraced a brand-new upgrade. Equipped with four gigabit LANs and with Link Aggregation enabled, Synology RS814+/RS814RP+ delivers an exceptional 330MB/s reading speed under RAID 5 configuration in a Windows® environment, and 196MB/s writing.<sup>1</sup> With RAM twice the size of its predecessor, Synology RS814+/RS814RP+ provides high multi-tasking performance that your data-intensive applications demand for a storage system. Features two USB 3.0 ports, RS814+/RS814RP+ efficiently saves the time needed for external data storage.

## Resilient and Reliable

In addition to superior performance, RS814+/RS814RP+ is built for reliability. Four LAN ports provide redundancy in the event of unexpected network failure while hot swappable drives also help to minimize system downtime during drive replacement. Should a fan fail, built-in redundancy mechanisms will spin up functional fan(s) to improve ventilation.

Uninterrupted availability is a critical goal for all businesses; however, many businesses worldwide still remain unprepared for disaster. Synology High Availability (SHA) can ensure seamless transition between clustered servers in the event of server failure with minimal impact to applications, and to decrease the risk of unexpected interruptions and costly downtime.

## Virtualization Compliance

With the iSCSI support in DSM, RS814+/RS814RP+ provides seamless storage solutions for virtualization environments, including VMware, Citrix, and Hyper-V. With VMware vSphere® 5, and VAAI integration, RS814+/RS814RP+ helps offload specific storage operations and optimizes computation power for unparalleled performance and efficiency in VMware environments. 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.



### **Cross-platform File Synchronization**

Auto-synchronize your files among DiskStation, PC and mobile devices using Synology Cloud Station.

### **Robust & Affordable Scalability Up to 32TB**

When the storage capacity of the Synology RS814+/RS814RP+ is nearing its limits, it can easily be expanded by the Synology RX410. The Synology RX410 securely connects to the Synology RS814+/RS814RP+ via an eSATA cable with specially-designed locking connectors, and expands the existing storage on the Synology RS814+/RS814RP+ up to a maximum 32TB capacity.

### **Fit to Business Environment**

Windows ADS integration allows the Synology RS814+/RS814RP+ to quickly and easily fit in an existing business network environment with no need to recreate users' accounts on the Synology RS814+/RS814RP+. 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 RS814+/RS814RP+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on RS814+/RS814RP+ 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.

### **Full-featured Business Applications**

The Synology RS814+/RS814RP+ 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.

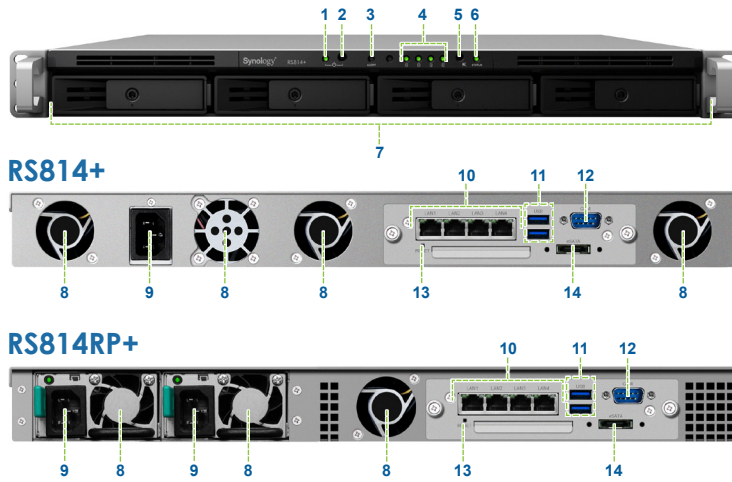
A wealth of additional features allows the Synology RS814+/RS814RP+ to replace several pieces of network hardware. Synology Web Station with support for PHP/MySQL® content allows for the hosting of up to 30 websites on a single Synology RS814+/RS814RP+. Synology Surveillance Station offers a centralized interface to safeguard the office environments by deploying IP cameras throughout the network. RS814+/RS814RP+ 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. Cloud Station allows users to sync files among multiple devices, including Windows PC, Mac, Linux, iOS and Android™ tablets or phones, effortlessly keeping everything up-to-date.

### **Energy Efficient Design**

Synology RS814+/RS814RP+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, RS814+/RS814RP+ 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.

# Connections & Buttons



- 1 Power Indicator
- 2 Power Button
- 3 Alert Indicator
- 4 Disk Indicators
- 5 Beep off Button
- 6 Status Indicator
- 7 Hard Drive Trays
- 8 Fan
- 9 Power Port
- 10 Gigabit LAN ports
- 11 USB 3.0 Ports
- 12 Console Port
- 13 RESET Button
- 14 eSATA Port

# Technical Specifications

## Hardware

CPU	Intel® Atom Dual Core 2.13GHz
Floating Point	Yes
Memory	DDR3 2GB (Expandable, up to 4GB)
Internal HDD/SSD	3.5" or 2.5" SATA(II) X 4 (hard drives not included)
Max Internal Capacity	16TB (4 X 4TB HDD) (The actual capacity will differ according to volume types)
Hot Swappable Drive	Yes
External Ports	USB 3.0 port X 2, eSATA port X 1
Size (HxWxD) (mm)	44 X 430.5 X 457.5 (RS814+) / 44 X 430.5 X 570.5 (RS814RP+)
Weight	7.11kg (RS814+) / 9.43kg (RS814RP+)
LAN	Gigabit X 4
Wake on LAN/WAN	Yes
Wireless Support (dongle)	Yes
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	-10°C to 70°C (15 to 155°F)
Relative Humidity	5% to 95% RH

## General

Networking Protocols	CIFS, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
File System	Internal: EXT4 External: EXT4, EXT3, FAT, NTFS, HFS+
Storage Management	Max File System Size: 108TB, Max Internal Volume #: 512, Max iSCSI Target #: 32, Max iSCSI LUN#: 256, RAID Clone/Snapshot support; Supported RAID Type : Synology Hybrid RAID, Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10; Synology Expansion Unit Support: RX410
File Sharing Capability	Max User Account: 2048, Max Group: 256, Max Shared Folder: 512, Max Concurrent CIFS/AFP/FTP Connections : 512
Privilege	Windows Access Control List (ACL)
Virtualization	VMware vSphere 5, Microsoft® Hyper-V, Citrix Ready
Directory Service	Windows AD Integration: Domain Users login via Samba (CIFS)/AFP/FTP/File Station, LDAP Integration
Security	FTP over SSL/TLS, IP Auto-Block, Firewall, Encrypted Network Backup over Rsync, HTTPS Connection
Utilities	Synology Assistant, Synology Data Replicator 3
Supported Clients	Windows XP onward, Mac OS X® 10.5 onward, Ubuntu 9.04 onward
Supported Browsers	Chrome®, Firefox®, Internet Explorer®: 8 or later, Safari 5® or later, Safari (iOS 5 or later on iPad®), Chrome (Android 4.0 on tablets)
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

## Add-on Packages

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.)
Directory Server	LDAP Directory Server, Backup and Restore LDAP Database
VPN Server	Maximum Connections: 20, VPN Method: PPTP, OpenVPN, L2TP
DHCP Server	Independent DHCP Server on Different Network Interfaces, Multiple Subnets Support, Address Reservation
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
Antivirus Essential	Full System Scan, 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 Concurrent File Transfers: 512, Retain Historical and Deleted File Versions
DLNA®/UPnP® Media Server	DLNA certified, PS3®/Xbox 360® Support
Download Station	Supported Download Protocols: BT/HTTP/FTP/NZB/eMule Maximum Concurrent Download Tasks : 80
Other Packages	Photo Station, Audio Station, iTunes® Server, 3rd-party packages

## Applications

File Station	Virtual Drive, Remote Folder
Backup Solutions	Network Backup, Local Backup, Desktop Backup (Window: Synology Data Replicator; Mac: Apple® Time Machine® backup application); Shared Folder Sync - Max Task Number : 8, Configuration Backup
Mail Server	Supported Mail Server Protocols: POP3, SMTP, IMAP
FTP Server	Bandwidth Control, Custom FTP Passive Port Range, Anonymous FTP, Transfer Log
Web Station	Virtual Host (up to 30 websites), PHP/MySQL, 3rd-Party Applications Support
Printer Server	Max Printer #: 2, Printing Protocols: LPR, CIFS, IPP, Apple iOS Printing, Google Cloud Print™, Multi Functional Print Server (MFP functions are for Windows PC only)
iOS/Android Applications	DS audio, DS cam, DS cloud, DS download, DS file, DS finder, DS photo+, DS video
Windows Phone Applications	DS audio, DS finder, DS photo+, DS video, DS file

## Environment and Packaging

Environment	RoHS Compliant
Package Content	RS814+/RS814RP+ Main Unit, Welcome Note, Accessory Pack, AC Power Cord X 1 (RS814+), AC Power Cord X 2 (RS814RP+)
Optional Accessories	Remote, Camera License Pack, Synology RKS1314 - Rail Kit Sliding, Synology RKM114 - Rail Kit Mounted, 2GB DDR3 RAM Module, Expansion Unit (RX410 X 1)
Warranty	3 years

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Performance may vary depending on the environment.
2. RS814+/RS814RP+ supports one Synology RX410, purchased separately.

## 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.

Copyright © 2014, 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.

RS814+/RS814RP+-2014-ENU-REV001

### Headquarters

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

### France

39 rue Louis Blanc,  
92400 Courbevoie  
France  
Tel: +33 147 176288

### North & South America

Synology America Corp.  
13343 NE Bel-Red Road,  
Bellevue, WA 98005  
USA  
Tel: +1 425 818 1587

### United Kingdom

Synology UK Ltd.  
Etheridge Avenue, Brinklow,  
Milton Keynes, MK10 0BP,  
UK  
Tel: +44 1908 587422

### Germany

Synology GmbH  
Grafenberger Allee 125  
40237 Düsseldorf  
Deutschland  
Tel: +49 211 9666 9666