



## RackStation RS815+/RS815RP+

Synology RackStation RS815+/RS815RP+ features an all-new quad core CPU with an AES-NI hardware encryption engine, providing outstanding performance and data encryption acceleration within a 1U rackmount chassis. With four built-in Gigabit LAN ports and scalability of up to 8 drives, Synology RS815+/RS815RP+ is the ideal storage solution for centralizing data backups, protecting critical assets and sharing files across different platforms. Synology RS815+/RS815RP+ is backed with Synology's 3-year limited warranty.

### Highlights

- **Quad Core CPU Delivers 389.03 MB/s Reading, 361.33 MB/s Writing**
- **AES-NI Hardware Encryption Engine Delivers 388.66 MB/s Reading, 158.9 MB/s Writing**
- **Four Gigabit LAN Ports with Failover and Link Aggregation Support**
- **Scale up to 8 Drives with Synology RX415<sup>2</sup>**
- **Expandable RAM Module (Up to 6GB)**
- **Redundant Power Supplies Ensure Service Uptime (RS815RP+ only)**
- **High Availability and SSD Read/Write Cache Support**
- **VMware<sup>®</sup>, Citrix<sup>®</sup>, and Microsoft<sup>®</sup> Hyper-V<sup>®</sup> Certified**
- **Running on Synology DiskStation Manager (DSM)**

### Superior Performance

With a brand-new **quad core CPU**, **expandable RAM module up to 6GB**, and **four Gigabit LAN ports** supporting link aggregation and failover, Synology RackStation RS815+/RS815RP+ delivers up to an average **389.03 MB/s reading** and **361.33 MB/s writing** speed under RAID 5 configuration in a Windows<sup>®</sup> environment.<sup>1</sup> Powered by its **AES-NI hardware encryption engine**, RS815+/RS815RP+ also delivers fast encrypted data transmission at over **388.66 MB/s reading** and **158.9 MB/s writing**, becoming Synology's most powerful 1U rackmount NAS server ever-built.

### Virtualization Certified

RS815+/RS815RP+ provides seamless storage solutions for virtualization environments, including **VMware<sup>®</sup>**, **Citrix<sup>®</sup>**, and **Hyper-V<sup>®</sup>**. Being **VMware vSphere 5<sup>®</sup>** and **VAAI<sup>®</sup>** integration certified, RS815+/RS815RP+ helps offload specific storage operations and optimizes computation power for unparalleled performance and efficiency in VMware environments. As the centralized storage of a virtual environment, RS815+/RS815RP+ enables virtual machine migration, allowing movement from server to server whilst eliminating service downtime and disruption to user. **Windows<sup>®</sup> Offloaded Data Transfer (ODX)** and **Synology Advanced LUN** support extremely improves the efficiency on massive data transfer and migration.

### Robust & Affordable Scalability Up to 48TB

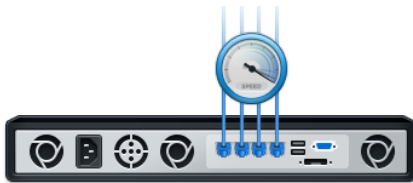
With an optional Synology expansion unit RX415, storage volume expansion for Synology RS815+/RS815RP+ is fast and easy. RX415 securely connects to a RS815+/RS815RP+ via an eSATA cable with specially-designed locking connectors and expands the existing storage on Synology RS815+/RS815RP+ up to a maximum raw capacity of 48TB.





**Figure 1) Reliability, Availability & Disaster Recovery**

Synology High Availability ensures seamless transition between clustered servers in the event of server failure with minimal impact to businesses.



**Figure 2) Superior Performance**

Multiple LAN ports with link aggregation support allows RS815+/RS815RP+ to deliver superior performance.

## Fit to Business Environment

**Windows ADS integration** allows the Synology RS815+/RS815RP+ to quickly and easily fit in an existing business network environment with no need to recreate users' accounts on the Synology RS815+/RS815RP+. 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 RS815+/RS815RP+ provides much finer-grained access control and efficient privilege settings, allowing IT staffs to set up privileges to files and folders on RS815+/RS815RP+ 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.

## Resilient and Reliable

In addition to its superior performance, RS815+/RS815RP+ is built for reliability. **Four Gigabit LAN ports** provide redundancy in the event of unexpected hardware failure while hot swappable drives also help to minimize system downtime during drive replacement.

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

## Easy Backup Solutions

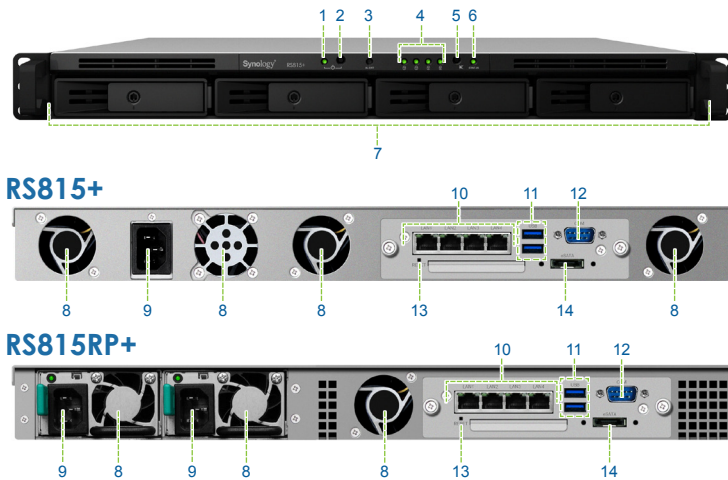
To protect your critical business data, RS815+/RS815RP+ can become a centralized backup target for consolidating fragmented and unstructured information across your network through a range of options. Advanced backup privilege management makes network backup tasks safer and efficient. **Cloud Station** with selective sync and ACL control provides real-time data backup and synchronization among multiple computers and mobile devices. Complete backup solutions including **Scheduled LUN Snapshot**, **LUN clone** and **Backup & Replication** minimize the impact of disasters.

## Energy Efficient Design

Synology RS815+/RS815RP+ is designed and developed with energy efficiency in mind. Compared with the average storage server counterparts, RS815+/RS815RP+ 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 drives.

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 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 C2538 Quad Core 2.4GHz
Hardware Encryption Engine	Yes (AES-NI)
Floating Point Unit	Yes
RAM Size	DDR3 2 GB (Expandable up to 6 GB)
Internal HDD/SSD	3.5" or 2.5" SATA(II) X 4 (hard drives not included)
Maximum Internal Raw Capacity	24 TB (6 TB HDD X 4) (The actual capacity will differ according to volume types)
Hot Swappable Drive	Yes
External Ports	USB 3.0 ports X 2, eSATA X 1
Size (HxWxD) (mm)	44 X 430.5 X 457.5 (RS815+) 44 X 430.5 X 591.8 (RS815RP+)
Weight	6.73kg (RS815+) 9.36kg (RS815RP+)
LAN	Gigabit X 4
Wake on LAN/WAN	Yes
Wireless Support	Yes (wireless dongles not included)
AC Input Power Voltage	100V to 240V
Power Frequency	50 Hz to 60 Hz, 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

### 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	Maximum Single Volume Size: 108 TB, Maximum Internal Volume #: 512, Maximum iSCSI Target #: 32, Maximum 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 : RX415
File Sharing Capability	Maximum User Account: 2048, Maximum Group: 256, Maximum Shared Folder: 512, Maximum Concurrent CIFS/AFP/FTP Connections: 512
Privilege	Windows® Access Control List (ACL)
Directory Service	Windows® AD Integration: Domain Users login via Samba (CIFS)/AFP/FTP/File Station, LDAP Integration
Virtualization	VMware vSphere® 5, Microsoft Hyper-V®, Citrix® Certified
Security	FTP over SSL/TLS, IP Auto-Block, Firewall, Encrypted Network Backup over Rsync, HTTPS Connection
Utilities	Synology Assistant, Cloud Station, Evidence Integrity Authenticator
Supported Clients	Windows XP® onward, Mac OS X® 10.5 onward, Ubuntu® 9.04 onward

Supported Browsers	Chrome®, Firefox® Internet Explorer®: 8 or onward, Safari® 5 or onward, 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

## Applications

File Station	Virtual Drive, Remote Folder
Backup Solutions	Network Backup, Local Backup, Desktop Backup, Shared Folder Sync - Maximum 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	Maximum Printer #: 2, Printing Protocols: LPR, CIFS, IPP, Apple iOS Printing, Google Cloud Print™, Multi Functional Print Server (MFP functions are for Windows PC only)
Log Center	SSL Connection, Log Rotation: 6 months, 1 year, 2 years, 3 years, Email Notification
iOS/Android™ Applications	DS audio, DS cam, DS cloud, DS download, DS file, DS finder, DS photo+, DS video, DS note
Windows Phone® Applications	DS audio, DS download, DS file, DS finder, DS photo+, DS video

## Add-on Packages

Surveillance Station	Default IP cam #: 2, Maximum IP cam # (licenses required): 40 (with two free licenses to install two IP cameras. Additional licenses can be purchased to expand the license quota.)
VPN Server	Maximum Connections : 20, VPN Method: PPTP, OpenVPN™
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
Cloud Station	Maximum Concurrent File Transfers: 512, Retain Historical and Deleted File Versions
Cloud Sync	Data Sync with Public Cloud Services: Dropbox, Google Drive, Baidu, Microsoft OneDrive, Box and hubiC
DLNA®/UPnP® Media Server	DLNA compliant, PS3®/Xbox 360® supported
Download Station	Supported Download Protocols: BT/HTTP/FTP/NZB/eMule Maximum Concurrent Download Tasks: 80
Note Station	Rich-Text Note Organization with Versioning, Encryption, Sharing, Media Embedding and Attachments
Other Packages	Photo Station, Audio Station, iTunes® Server, 3rd-party packages

## Environment and Packaging

Environment	RoHS Compliant
Package Content	RS815+/RS815RP+ Main Unit, Welcome Note, Accessory Pack, AC Power Cord X 1 (RS815+), AC Power Cord X 2 (RS815RP+)
Optional Accessories	Remote, Camera License Pack, Synology RKS1314 - Rail Kit Sliding, Synology RKM114 - Rail Kit Mounted, Expansion Unit (RX415), 4GB DDR3 RAM Module
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 figures could vary on different environments.
2. RS815+/RS815RP+ supports one Synology RX415, sold 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.

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### Headquarters

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

### China

Synology Shanghai  
20070, Room 516, No. 638,  
Hengfeng Rd., Zhabei Dist.,  
Shanghai

### France

Synology France SARL  
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.  
Unit C, Denbigh West Business Park,  
Third Avenue, Bletchley,  
Milton Keynes, MK1 1DH, UK  
Tel: +44 1908 366380

### Germany

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