ComX Computers
Product Specification Sheet

SYN-RS3614RPXS

SYNOLOGY? 12-Bay, SATA, Intel Core i3 Dual Core RackStation RS3614XS

Product Overview

SYNOLOGY? RackStation RS3614XS - 12-Bay, SATA, Intel Core i3 Dual Core 3.4GHz Processor, 4GB DDR3 ECC RAM(Expandable, up to 32GB), 4x Gigabit LAN, 4x USB, 2 x Optional 10GbE, Hotswap, 60TB Max, Redundant Power Supply Unit.



Specifications

Overview:

Ultra-high performance
Rs3614xs/rs3614rpxs delivers ultra-high performance at 3,518 mb/s throughput and 282,660 iops under raid 5 configuration.1 rs3614xs/rs3614rpxs is equipped with 4gb ram and up to 32gb ecc ram expansion support, so enterprises can guarantee data accuracy as well as superior ultra-high performance for the mission-critical tasks of the business.

Robust scalability up to 216tb
With 12 hdd trays and support for adding up to two synology rx1214/rx1214rp2expansion units, rs3614xs/rs3614rpxs provides the ability to seamlessly expand up to 216tb3of total storage capacity and expand a single volume up to 108tb on the fly. When the storage capacity of rs3614xs/rs3614rpxs nears it limit, expansion is easily accomplished as it supports up to 36 hdds or ssds. Rs3614xs/rs3614rpxs provides enterprises flexible capacity and balanced performance to meet the needs of varying applications and processes.

Four 10gbe ports and sata iii 6gb/s support
In addition to the default four gigabit ports, rs3614xs/rs3614rpxs comes with dual pci express gen3 x8 slots, allowing installation of dual 10gbe network interface cards (nic) for maximized bandwidth. Dual pcie slots for quad 10gbe ports support brings you the superior performance that data-intensive applications demand of your storage system. Coming with native sata iii 6gb/s support, rs3614xs/rs3614rpxs ensures the optimum data process under heavy system loading.

Reliable redundancy mechanisms
Rs3614xs/rs3614rpxs comes with comprehensive redundancy mechanisms to ensure your business continuity. Built-in four lan ports with failover provides the reliable redundancy in the event of unexpected network failure. The high reliability system design including fan-less cpu heat-sink and passive cooling technologies prevents single point of failure. Other features such as redundant data paths, power supplies, system fans, and network ports with failover support ensure continual service uptime.

Hardware encryption engine enhances file transfer speeds
Rs3614xs/rs3614rpxs is equipped with an encryption engine which offloads encryption calculation tasks away from the main cpu. Thus, the cpu can be free for other important tasks. In addition, advanced encryption standard (aes) on shared folders with hardware acceleration ensures security without compromising access performance, providing over 2,600mb/s in reading.

Ssd cache technology
Rs3614xs/ rs3614rpxs enables the combination of hard drives and read/write-optimized ssd cache, boosting throughput efficiently while minimizing cost per gigabyte. With full ssd cache reading and writing support, rs3614xs/ rs3614rpxs offers a significant reduction in i/o latency without crippling your budget. With only a small upfront investment, businesses can benefit from significant server performance enhancement.

Synology replacement service (srs)
The synology replacement service (srs)* provides free shipment of replacement units as early as the next business day. Srs can expedite the process of replacing defective products and minimize service downtime.
* available in selected countries. Click for more information.

Award winning os - diskstation manager
Synology diskstation manager (dsm) is a sleek, browser-based operating system running on every diskstation and rackstation, which makes managing your synology nas a breeze. Featuring an intuitive user interface, dsm makes accessing and sharing your data smarter and simpler. Synology's package center lets you download and install useful add-on packages designed specifically for individual or business needs, meaning you can enjoy more entertainment in your life or better productivity at work.

Fit into business environments easily
With the support of windows ad, ldap, and domain trust, rs3614xs/ rs3614rpxs enables seamless account integration. The user home feature can automatically create a "home" folder for every user account to minimize the administrator's effort in repeatedly creating "home" folders for all accounts. Windows acl support on rs3614xs/ rs3614rpxs allows it administrators to fine tune access controls and set up privileges to files and folders on rs3614xs/ rs3614rpxs through the familiar windows user interface. With compatibility for major protocols, rs3614xs/ rs3614rpxs can eliminate server configuration overhead and enhance it administrators' efficiency.

Seamless storage solution for virtualization environments
Rs3614xs/ rs3614rpxs provides seamless storage solutions for virtualization environments, including vmware, citrix, and microsoft hyper-v. With vmware vsphere 5 & vaai integration, rs3614xs/ rs3614rpxs helps offload specific storage operations and optimizes computation power in vmware environments. Windows odx support speeds up data manipulation as the data transfer is offloaded. Iscsi also lets smb users consolidate storage into data center storage arrays while providing hosts with the illusion of locally-attached disks.

Unified storage system
Rs3614xs/ rs3614rpxs enables businesses to cost-effectively manage multi-protocol data by integrating file-level (nas) and block-level (san) storage into one unified storage system. Files can be shared across windows, mac, and linux platforms seamlessly with comprehensive network protocol support (cifs/smb, afp, and nfs). Rs3614xs/ rs3614rpxs provides a cost-effective iscsi solution, allowing large scale businesses to consolidate storage into data center storage arrays. With thin provisioning available for file-level iscsi lun, you can maximize storage utilization by oversubscribing provisions and grow storage space as needed.

Protection by lun backup, snapshot, and clone
Rs3614xs/ rs3614rpxs enhances the ease of moving and copying data in a virtualized environment with the features - lun backup, lun snapshot, and lun clone. Rs3614xs/ rs3614rpxs offers iscsi lun backup at storage level without extra charge. Synology lun clone and lun snapshot only take up 1/1000 of the original size which highly optimizes storage usage. In addition, synology's lun snapshot lets you create up 256 snapshots per lun using point-in-time technology without having any impact on system performance. With better support to servers under vmware vsphere or windows environment, it managers can expect

guaranteed vm status and data consistency through application-consistent snapshots.

Synology cms (central management system)
For enterprises with more than one synology nas server, cms offers the flexibility and convenience for it administrators to manage all of them from a single point of entry. Through a simple interface, you can obtain a clear overview on resource consumption and logs, helping you identify any issue right away. With group policies, cms can do much more for your daily tasks. Once a nas joins a group, it will automatically adopt its rules and behave as intended, without extra configuration.

Increase business productivity with cloud solutions
With comprehensive cloud solutions, rs3614xs/ rs3614rpxs lets you create your own cloud easily. Cloud station is the perfect package to sync files across multiple devices with the benefit of better privacy for important data. Files can be edited in offline mode and later synced to cloud station, which retains up to 32 versions to avoid file overwriting. With mobile app ds cloud, any change made to a file is automatically synced to your smartphones and tablets. For distributed enterprise, synology's 2-way sync between different diskstations ensures employees at different locations share the same information in real-time. It administrators can customize synchronization rules, such as avoiding syncing large files to optimize bandwidth usage.

Ensuring business continuity
Uninterrupted availability is a critical goal for all businesses. Rs3614xs/ rs3614rpxs offers synology high availability (sha) technology which combines an active and a passive server into one cluster, the latter always mirrored to the former. The heartbeat mechanism detects regular "heartbeats" between the two servers. If the main server encounters unexpected downtime, the passive server immediately takes over. With multiple lan ports, rs3614xs/ rs3614rpxs also ensures redundancy in the event of unexpected network failure.

Secure your data
Rs3614xs/ rs3614rpxs provides share-level aes 256-bit encryption to block off unauthorized access attempts. Once you create and encrypt a shared folder, people without the encryption key will not be able to use the encrypted data even if they remove the hard drives from your rs3614xs/ rs3614rpxs and mount it on their device. 2-step verification gives an extra layer of protection as 6-digit one-time code sending to your mobile device is required for login. In addition, rs3614xs/ rs3614rpxs provides other security add-ons, such as ip block & allow list, antivirus packages, firewall, and dos attack prevention. These enhancements ensures a secure dsm environment.

Specifications:

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Specifications	
Product Code	SYN-RS3614RPXS
CPU	
CPU Model	Intel Core i3
CPU Frequency	Dual Core 3.4 GHz
Memory	
System Memory	4 GB DDR3 ECC
Memory Module Pre-installed	2 GB X 2
Total Memory Slots	4
Memory Expandable up to	32 GB (8 GB X 4)
Storage	

Drive Bay(s)	12
Max. Drive Bays with Expansion Unit	36
Compatible Drive Type	3.5" SATA(III) / SATA(II) HDD
	2.5" SATA(III) / SATA(II) HDD
	2.5" SATA(III) / SATA(II) SSD
Max. Internal Capacity	72 TB (6 TB HDD X 12) (Capacity may vary by RAID types)
External Ports	
USB 2.0 Port	2
USB 3.0 Port	2
Expansion Port	2
File System	
Internal Drives	EXT4
External Drives	EXT4
	EXT3
	FAT
	NTFS
	HFS+
Appearance	
Size (Height X Width X Depth)	88 mm X 445 mm X 570 mm
	88 mm X 445 mm X 570 mm (for RP model)
Weight	13.3 kg
	15.4 kg (for RP model)
Others	
LAN Number (RJ45)	Gigabit X 4 (supports 2 X optional dual-port 10GbE add-on card)
Wake on LAN/WAN	
System Fan	80 mm X 80 mm X 4 pcs
Wireless Support (dongle)	
Noise Level	40.5 dB(A)
	42.2 dB(A) (for RP model)
Scheduled Power On/Off	
Power Supply Unit / Adapter	500W
	2 X 400W (for RP model)
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 HZ, Single Phase

Power Consumption	140.7W (Access)
	56.7W (HDD Hibernation)
	158W (Access, for RP model)
	67.4W (HDD Hibernation, for RP model)
Temperature	
Operating Temperature	5 degreesC to 35 degreesC (40 degreesF to 95 degreesF)
Storage Temperature	-20 degreesC to 60 degreesC (-5 degreesF to 140 degreesF)
Relative Humidity	5% to 95% RH
Certification	FCC Class A
	CE Class A
	BSMI Class A
Warranty	Carry-in
Storage Management	
Max File System Size	108 TB
Max Internal Volume Number	1024
Max iSCSI Target Number	64
Max iSCSI LUN	512
iSCSI LUN Clone/Snapshot, Windows ODX	
Supported RAID Type	Synology Hybrid RAID
	Basic
	JBOD
	RAID 0
	RAID 1
	RAID 5
	RAID 6
	RAID 10
RAID Migration	Basic to RAID 1
	Basic to RAID 5
	RAID 1 to RAID 5
	RAID 5 to RAID 6
Volume Expansion with Larger HDDs	Synology Hybrid RAID
	RAID 1
	RAID 5
	RAID 6

Volume Expansion by Adding a HDD	Synology Hybrid RAID
	RAID 5
	RAID 6
	JBOD
Global Hot Spare Supported RAID Type	Synology Hybrid RAID
	RAID 1
	RAID 5
	RAID 6
	RAID 10
File Sharing Capacity	
Max User Accounts	16000
Max Groups	512
Max Shared Folder	512
Max Shared Folder Sync Tasks	16
Max Concurrent CIFS/AFP/FTP Connections	1024
Log Center	
Syslog Events per Second	3000
Citrix Ready	
Notes	Performance figures could vary on different environments.
	The Max File System size (or the Max Volume size) doesn't equal to the Max Internal Capacity, which is limited by the aggregated space of installed drives.
Cloud Station	
Maximum Concurrent File Transfers	1024
Download Station	
Maximum Concurrent Download Tasks	80
Surveillance Station	
Max IP cam (Licenses required)	75 (including 2 Free License)
Total FPS (H.264)	2250 FPS @ 720p (1280x800)
	650 FPS @ 1080p (1920x1080)
	450 FPS @ 3M (2048x1536)
	200 FPS @ 5M (2591x1944)
Total FPS (MJPEG)	600 FPS @ 720p (1280x800)
	240 FPS @ 1080p (1920x1080)
	150 FPS @ 3M (2048x1536)
	150 FPS @ 5M (2591x1944)
Time Backup	

Maximum Task Number	16
Video Station	
Video Transcoding	Group 1
VPN Server	
Maximum Connections	30
Notes	Surveillance Station throughput is tested with Axis M1054 (1280X800); FPS set to 10 at every channel; Compression rate: 30%; Video Codec: MJPEG, H.264; Recording Type is conducted with Motion Detection Recording (By camera) and Continuous Recording; Actual performance may vary depending on camera settings and DiskStation loading.
Environment & Packaging	
Environment	RoHS Compliant
Packaging Content	Main Unit X 1
	Welcome Note X 1
	Accessory Pack X 1
	AC Power Cord X 1
	AC Power Cord X 2 (for RP model)
Optional Accessories	Remote
	Camera License Pack
	4GB (2GB X 2) ECC RAM Module Kit
	8GB (4GB X 2) ECC RAM Module Kit
	16GB (8GB X 2) ECC RAM Module Kit
	Expansion Unit: RX1214/RX1214RP X 2
	VS240HD
	Synology RKS1314 - Rail Kit Sliding

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/SYN-RS3614RPXS-SYNOLOGY-12-Bay-SATA-Intel-Core-i3-Dual-Core-RackStation-RS3614XS-p-97752.php

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