

RackStation RS1221+

Brand: Synology
Product Code: RS1221+
Availability: 10
Weight: 6.90kg
Dimensions: 88.00mm x 482.00mm x
306.60mm

Price: \$89,351.00

Short Description

Synology 8 Bay RackStation RS1221+

Description

Compact and reliable

The RS1221RP+/RS1221+, at only 30 to 38 centimeters deep, is built for space-sensitive deployments. Boasting over 100K 4K random read IOPS and 2,315 MB/s sequential read¹, the RS1221RP+/RS1221+ is equipped to handle heavy workloads in data-intensive environments. The RS1221RP+ additionally features an extra level of protection with redundant power supplies.



Compute

AMD Ryzen™ V1500B quad-core 2.2 GHz



Throughput

2,300 MB/s seq. read 100K 4K random read IOPS^{[1](#)}



Memory

4 GB ECC DDR4 Up to 32 GB



Compact

30cm depth (38cm for RP model)

A compact design for space efficiency

The RS1221+ and its RX418 expansion units are designed to help you save space in compact deployments. At only 30 centimeters, half the length of a typical 2U unit, it fits perfectly snug onto 2-post or shallow rackmount enclosures. The RS1221RP+ with dual power supplies comes in at 38 cm, also fitting most shallow depth enclosures.²

Fits into shallow rackmount enclosures

Easy-to-install on 2-post racks

Built for reliability

Redundant power

Reduce the chance that power disruptions on a single distribution channel or PDU causes data and service availability degradation.

Maximize service availability

When paired with another identical unit, Synology High Availability enables automatic minute-level failover between two clustered servers in the event of a server failure to minimize service downtime

Data integrity and protection

ECC memory and the Btrfs file system bring higher reliability and snapshot capabilities to help prevent data corruption and simplify data protection.

High performance storage for anything

Up to 2,315/1,147 MB/s sequential read and write throughput and over 100K/54K random read/write IOPS ensures ample performance for demanding workloads.^{[1](#)}

With room to grow with you

Easily upgrade the RS1221RP+/RS1221+ to match your usage environment, whether it's for performance, faster networking, or higher storage capacity.^{[3](#)}

SSD cache

Boost read/write IOPS over HDD-only arrays by 16X or more with NVMe or SATA SSD Cache^{[4](#)}

10GbE ready

Storage expansion

Data protection solutions, built-in

Maximize data availability

Hyper Backup

A comprehensive backup and recovery solution for added data protection. Create backup destinations locally, on another Synology device, rsync servers, or cloud-based destinations, such as Google Drive, Dropbox, S3-compatible destinations, and Synology C2 Storage, a dedicated backup destination for Synology devices. Deduplication, integrity checks, and incremental transfer technology reduce bandwidth and storage use.

Snapshot Replication

Easily schedule flexible point-in-time backups of shared folders and LUNs with an RPO as low as 5 minutes and recovery in seconds. Set up replication and failover to other Synology storage systems for fast RTOs and minimal service disruption

Protect your entire IT infrastructure

Protect your entire office with Active Backup

The Active Backup suite enables administrators to easily secure their entire IT infrastructure by backing up mission-critical data to their NAS, including Windows & Linux workstations and servers, file servers, VMware and Hyper-V virtual machines, and Microsoft 365 and Google Workspace accounts. Benefit from deduplication, multiversioning to quickly jump back in time, and additional data efficiency optimizations for reduced bandwidth and storage use

Software

DSM Specifications		RS1221+
Storage Management	Maximum Single Volume Size	108 TB
	Maximum Internal Volume Number	64
	SSD Read/Write Cache (Determining cache size)	
	SSD TRIM	
	Supported RAID Type	<ul style="list-style-type: none"> • Synology Hybrid RAID • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10
	RAID Migration	<ul style="list-style-type: none"> • Basic to RAID 1 • Basic to RAID 5 • RAID 1 to RAID 5 • RAID 5 to RAID 6
	Volume Expansion with Larger HDDs	<ul style="list-style-type: none"> • Synology Hybrid RAID • RAID 1 • RAID 5 • RAID 6 • RAID 10
	Volume Expansion by Adding a HDD	<ul style="list-style-type: none"> • Synology Hybrid RAID • JBOD • RAID 5 • RAID 6
	Global Hot Spare Supported RAID Type	<ul style="list-style-type: none"> • Synology Hybrid RAID • RAID 1 • RAID 5 • RAID 6 • RAID 10
	Notes	

File System	Internal Drives	<ul style="list-style-type: none"> • Btrfs • ext4
	External Drives	<ul style="list-style-type: none"> • Btrfs • ext4 • ext3 • FAT • NTFS • HFS+ • exFAT
	Notes	
File Services	File Protocol	<ul style="list-style-type: none"> • SMB • AFP • NFS • FTP • WebDAV • Rsync
	Maximum Concurrent SMB/AFP/FTP Connections	1,000
	Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion)	2,000
	Windows Access Control List (ACL) Integration	
	NFS Kerberos Authentication	
	Notes	
Account & Shared Folder	Maximum Local User Accounts	2,048
	Maximum Local Groups	256
	Maximum Shared Folder	512
	Maximum Shared Folder Sync Tasks	16
Hybrid Share	Maximum Hybrid Share Folders	10
Hyper Backup	Folder and Package Backup	
	Entire System Backup	
	Notes	
High Availability	Synology High Availability	
Log Center		

	Syslog Events per Second	1,000
Virtualization	VMware ESXi 6.5 and VAAI	
	Windows Server 2016	
	Windows Server 2019	
	Windows Server 2022	
	Citrix Ready	
	OpenStack	
General Specifications	Supported Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV
	Supported Browsers	<ul style="list-style-type: none"> • Chrome • Firefox • Edge • Safari
	Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ?????, ????
	Notes	
Central Management System		
Synology Chat		
	Suggested Users	150
	Notes	
Download Station		
	Maximum Concurrent Download Tasks	80
SAN Manager		
	Maximum iSCSI Target Number	128
	Maximum LUN	256
	LUN Clone/Snapshot, Windows ODX	
	Notes	
Synology MailPlus /		

MailPlus Server	Free Email Accounts	5 (Additional accounts require purchase of licenses)
	Suggested Users	750
	Notes	
Media Server		
	DLNA Compliance	
Synology Photos		
	Facial Recognition	
	Object Recognition	
Snapshot Replication		
	Maximum Snapshots per Shared Folder	1,024
	Maximum of System Snapshots	65,536
Surveillance Station		
	Default Licenses	2 (Additional cameras require purchase of licenses)
	Suggested Maximum IP Cameras and Total FPS (H.264)	<ul style="list-style-type: none"> • 1080p: 40 channels, 1050 FPS • 3M: 40 channels, 600 FPS • 5M: 40 channels, 440 FPS • 4K: 32 channels, 320 FPS
	Suggested Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none"> • 1080p: 40 channels, 1200 FPS • 3M: 40 channels, 1120 FPS • 5M: 40 channels, 600 FPS • 4K: 40 channels, 480 FPS
	Notes	
Synology Drive		
	Recommended Number of Concurrent Sync Clients	550 (the number of connections that can be maintained when the recommended number of hosted files was reached)
	Recommended Number of Hosted Files	50,000,000 (applies to files indexed or hosted)

		by Synology Drive . For file access through other standard protocols, refer to the File Services section above)
	Notes	
Synology Office		
	Suggested Users	4,500
	Notes	
Virtual Machine Manager		
	Recommended Virtual Machine Instances	8 (Learn more)
	Recommended Virtual DSM Number (Licenses required)	8 (including 1 Free License)
	Notes	
VPN Server		
	Maximum Connections	40

Specification

NAS	
CPU Model	AMD Ryzen V1500B
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.2 GHz
Hardware Encryption Engine	Yes
Memory	4 GB DDR4 ECC SODIMM
Drive Bays	8
Hot Swappable Drive	Yes
RJ-45 1GbE LAN Port	4
USB 3.2 Gen 1 Port	2
System Fan	80 mm x 80 mm x 2 pcs
Power Supply Unit / Adapter	250 watts
Total Memory Slots	2
Maximum Memory Capacity	32 GB (16 GB x 2)
Expansion Port	1
PCIe Expansion	1 x Gen3 x8 slot (x4 link)
Form Factor (RU)	2U

Product Gallery

