

## RackStation RS1221RP+?



**Brand:** Synology

**Product Code:** RS1221RP+

**Availability:** 10

**Weight:** 8.40kg

**Dimensions:** 407.50mm x 482.00mm x  
88.00mm

**Price: \$121,878.00**

### Short Description

Synology 8 bay RackStation RS1221RP+

### 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 read<sup>1</sup>, 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<sup>1</sup>



## 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.<sup>2</sup>

- Fits into shallow rackmount enclosures
- Easy-to-install on 2-post racks
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## **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.<sup>[1](#)</sup>

## **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.<sup>[3](#)</sup>

## **SSD cache**

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

**10GbE ready**

**Storage expansion**

**Data protection solutions, built-in**

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## **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.

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## 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	
<a href="#">Storage Management</a>	Maximum Single Volume Size
	Maximum Internal Volume Number
	SSD Read/Write Cache ( <a href="#">Determining cache size</a> )
	SSD TRIM



	Supported RAID Type	
	RAID Migration	
	Volume Expansion with Larger HDDs	
	Volume Expansion by Adding a HDD	
	Global Hot Spare Supported RAID Type	
	Notes	
<a href="#">File System</a>	Internal Drives	
	External Drives	
<a href="#">File Services</a>	Notes	
	File Protocol	

	<b>Maximum Concurrent SMB/AFP/FTP Connections</b>	
	<b>Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion)</b>	
	<b>Windows Access Control List (ACL) Integration</b>	
	<b>NFS Kerberos Authentication</b>	
	<b>Notes</b>	
<a href="#">Account &amp; Shared Folder</a>	<b>Maximum Local User Accounts</b>	
	<b>Maximum Local Groups</b>	
	<b>Maximum Shared Folder</b>	
	<b>Maximum Shared Folder Sync Tasks</b>	
<a href="#">Hybrid Share</a>	<b>Hybrid Share Folder Number</b>	
<a href="#">Hyper Backup</a>	<b>Data &amp; Folder Backup</b>	
	<b>Entire System Backup</b>	
	<b>Notes</b>	
<a href="#">High Availability</a>	<b>Synology High Availability</b>	
<a href="#">Log Center</a>		
	<b>Syslog Events per Second</b>	
<b>Virtualization</b>	<b>VMware ESXi 6.5 and VAAI</b>	
	<b>Windows Server 2016</b>	
	<b>Windows Server 2019</b>	
	<b>Windows Server 2022</b>	
	<b>Citrix Ready</b>	
	<b>OpenStack</b>	
<a href="#">General Specifications</a>	<b>Supported Protocols</b>	
	<b>Supported Browsers</b>	
	<b>Supported Language</b>	
	<b>Notes</b>	
<a href="#">Central Management System</a>		
<a href="#">Synology Chat</a>		
	<b>Suggested Users</b>	

	<b>Notes</b>
<b>Download Station</b>	
	<b>Maximum Concurrent Download Tasks</b>
<a href="#">SAN Manager</a>	
	<b>Maximum iSCSI Target Number</b>
	<b>Maximum LUN</b>
	<b>LUN Clone/Snapshot, Windows ODX</b>
	<b>Notes</b>
<a href="#">Synology MailPlus / MailPlus Server</a>	
	<b>Free Email Accounts</b>
	<b>Suggested Users</b>
	<b>Notes</b>
<a href="#">Media Server</a>	
	<b>DLNA Compliance</b>
<a href="#">Synology Photos</a>	
	<b>Facial Recognition</b>
	<b>Object Recognition</b>
<a href="#">Snapshot Replication</a>	
	<b>Maximum Snapshots per Shared Folder</b>
	<b>Maximum of System Snapshots</b>
<a href="#">Surveillance Station</a>	
	<b>Default Licenses</b>
	<b>Suggested Maximum IP Cameras and Total FPS (H.264)</b>
	<b>Suggested Maximum IP Cameras and Total FPS (H.265)</b>
	<b>Notes</b>
<a href="#">Synology Drive</a>	
	<b>Recommended Number of Concurrent Sync Clients</b>
	<b>Recommended Number of Hosted Files</b>
	<b>Notes</b>

<a href="#">Synology Office</a>	
	<b>Suggested Users</b>
	<b>Notes</b>
<a href="#">Virtual Machine Manager</a>	
	<b>Recommended Virtual Machine Instances</b>
	<b>Recommended Virtual DSM Number</b> ( <a href="#">Licenses required</a> )
	<b>Notes</b>
<a href="#">VPN Server</a>	
	<b>Maximum Connections</b>

## 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	350 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
Redundant Power Supply	Yes

## Product Gallery