

RackStation RS1221+

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

Price: 89,351.00EGP

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 IOPS¹



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) |

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|---|---|---|
| | | 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

