

Synology RackStation RS1221RP+ NAS/storage server

Artikel	121662
Herstellernummer	RS1221RP+
EAN	4711174723690
Synology	



Compact and reliable

The RS1221+/RS1221RP+, 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, the RS1221+/RS1221RP+ is equipped to handle heavy workloads in data-intensive environments. The RS1221RP+ additionally features an extra level of protection with redundant power supplies.

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.

- 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.

With room to grow with you

Easily upgrade the RS1221+/RS1221RP+ to match your usage environment, whether it's for performance, faster networking, or higher storage capacity.

SSD cache

Boost read/write IOPS over HDD-only arrays by 16X or more with NVMe or SATA SSD Cache

10GbE ready

Improve I/O with faster SFP+ or RJ-45 networking

Storage expansion

Expand to 12 drive bays with a RX418 expansion unit

Data protection solutions, built-in

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 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.

Fully certified storage virtualization solutions

Synology iSCSI storage fully supports mainstream virtualization solutions to enhance work efficiency with an easy management interface. VMware vSphere 6 and VAAI integration helps offload storage operations. Windows Offloaded Data Transfer (ODX) speeds up data transfer. OpenStack Cinder support turns your Synology NAS into a block-based storage component. Additionally Synology Storage Console enables even more simplified storage provisioning and management options in VMware and Windows environments.

Works best with Synology drives

Engineered to handle intensive 24/7 workloads, Synology drives consistently deliver top-grade performance.

Powered by Synology DiskStation Manager

Synology High Availability

Seamless transition between clustered servers in the event of a server failure to minimize the impact on applications.

Virtual Machine Manager

Run various operating systems in isolated sandboxes. Seamlessly clone, store, and migrate virtual machines.

Synology Drive

Instantly access your NAS files across multiple devices whenever you want, wherever you are.

Central Management System

Conveniently manage your fleet of Synology NAS from a centralized console.

Surveillance Station

Complete surveillance solution for recording, monitoring, and management.

Collaboration Suite

Satisfy all team collaboration needs behind the safety of your own private cloud with Synology Office, Calendar, and Chat.

Zusammenfassung

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Synology RackStation RS1221RP+, NAS, Rack (2U), Ryzen Embedded, V1500B, Black

Synology RackStation RS1221RP+. Supported storage drive types: HDD & SSD, Supported storage drive interfaces: Serial ATA II, Serial ATA III, Storage drive sizes supported: 2.5,3.5". Processor family: Ryzen Embedded, Processor manufacturer: AMD, Processor model: V1500B. Internal memory: 4 GB, Internal memory type: DDR4, Maximum RAM supported: 32 GB. Ethernet LAN data rates:

1000 Mbit/s, Supported network protocols: SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN. Chassis type: Rack (2U), Cooling type: Active, Product colour: Black

Merkmale

Logistics data

Harmonized System (HS) code	84714100
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Packaging content

Cables included	AC
Power cables quantity	2

Technical details

Sustainability compliance	Y
Sustainability certificates	CE, RoHS

Software

Operating system installed	DiskStation Manager
Windows operating systems supported	Y
Mac operating systems supported	Y

Operational conditions

Operating temperature (T-T)	0 - 35 °C
Operating relative humidity (H-5 H)	95%
Storage temperature (T-T)	-20 - 60 °C
Operating altitude	0 - 5000 m

Weight & dimensions

Width	482 mm
Depth	407.5 mm
Height	88 mm
Weight	11.7 kg

Ports & interfaces

USB port	Y
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity	2
eSATA ports quantity	1
Ethernet LAN (RJ-45) ports	4
PCI Express x8 (Gen 3.x) slots	1

Memory

Internal memory type	DDR4
Maximum RAM supported	32 GB
Memory slots	2
Internal memory	4 GB
Memory form factor	SO-DIMM
ECC	Y

Processor

Processor manufacturer	AMD
Processor family	Ryzen Embedded
Processor model	V1500B
Processor frequency	2.2 GHz
Processor cores	4
On-board graphics card model	Not available

Design

Chassis type	Rack (2U)
Cooling type	Active
Product colour	Black
Number of fans	2 fan(s)
Fan diameter	8 cm
Drive bay locking	Y
LED indicators	HDD, Power, Status

Network

Ethernet LAN	Y
Ethernet LAN data rates	1000 Mbit/s
iSCSI support	Y
Wake-on-LAN ready	Y
Supported network protocols	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN
Link aggregation	Y
Load balancing system	Y

Power

Power supply location	Built-in
Power supply unit (PSU) capacity	350 W
Redundant power supply (RPS) support	Y
Power consumption (typical)	61.94 W
Power consumption (HDD standby)	29.98 W
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz

Storage

Supported storage drive interfaces	Serial ATA II, Serial ATA III
Storage drive sizes supported	2.5,3.5"
RAID support	Y
RAID levels	0, 1, 5, 6, 10, JBOD
Online RAID migration	Y
Online RAID expansion	Y
Hot-swap drive bays	Y
Supported file systems	BTRFS, Fat, HFS+, NTFS, exFAT, ext3, ext4
Storage drives installed	N
Number of storage drives supported	8
Installed storage drive type	N
Supported storage drive types	HDD & SSD

Performance

Type	NAS
Device class	Small & Medium Business
Backup function	Y
Backup features	Cloud, iSCSI LUN
Multilingual support	Y
Noise level	40 dB
Snapshot	Y
Management protocols	SNMP
Web-based management	Y
Security algorithms	HTTPS, SSH, SSL/TLS
Access Control List (ACL)	Y
Reset button	Y
On/off switch	Y
Built-in FTP server	Y
Browser supported	Safari, Chrome, Edge, Internet Explorer, Firefox
System log	Y
Hot spare	Y
Share folder	AFP, CIFS/SMB, FTP, WebDAV

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.