

# Synology RackStation RS1221+ NAS/storage server

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<b>Artikel</b>	120152
<b>Herstellernummer</b>	RS1221+
<b>EAN</b>	4711174723683
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 RS1221+, NAS, Rack (2U), Ryzen Embedded, V1500B, Black

Synology RackStation RS1221+. 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	306.6 mm
Height	88 mm
Weight	6.9 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

### Power

Power supply location	Built-in
Power supply unit (PSU) capacity	250 W
Power consumption (typical)	49.89 W
Power consumption (HDD standby)	22.64 W
AC input voltage	100 - 240 V
AC input frequency	50 - 60 Hz

### 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

### 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	25.2 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.