

Product Specifications





Hardware Specs

CPU	
CPU Model	Realtek RTD1296
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	4-core 1.4 GHz
Hardware Encryption Engine	v
Memory	
System Memory	2 GB DDR4 non-ECC
Notes	Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance.
Storage	
Drive Bays	4
Maximum Drive Bays with Expansion Unit	8 (RX418 x 1)
Compatible Drive Type* (See all supported drives)	 3.5" SATA HDD 2.5" SATA HDD 2.5" SATA SSD
Hot Swappable Drive	V
Notes	"Compatible drive type" indicates drives that have been tested to be compatible with Synology products. This term does not indicate the maximum connection speed of each drive bay.
External Ports	
RJ-45 1GbE LAN Port	2 (with Link Aggregation / Failover support)

USB 3.2 Gen 1 Port*	2
eSATA Port	1
Notes	The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.
File System	
Internal Drives	BtrfsEXT4
External Drives	 Btrfs EXT4 EXT3 FAT NTFS HFS+ exFAT
Notes	exFAT Access can be installed for free from Package Center in DSM 7.0. In DSM 6.2 or earlier versions, exFAT Access needs to be purchased in Package Center.
Appearance	
Form Factor (RU)	1U
Size (Height x Width x Depth)	44 mm x 478 mm x 327.5 mm
Weight	4.34 kg
Rack Installation Support*	 4-post 19" rack (Synology Rail Kit - RKM114/RKS-02) 2-post 19" rack (direct mounting)
Notes	The rail kit is sold separately
Others	
System Fan	40 mm x 40 mm x 3 pcs
Fan Speed Mode	Full-Speed ModeCool ModeQuiet Mode
Power Recovery	V

Noise Level*	28.9 dB(A)
Scheduled Power On / Off	v
Wake on LAN / WAN	v
Power Supply Unit / Adapter	100 W
Redundant Power Supply	-
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption*	28.31 W (Access) 10.1 W (HDD Hibernation)
British Thermal Unit	96.6 BTU/hr (Access) 34.46 BTU/hr (HDD Hibernation)
Notes	Power consumption is measured when it is fully loaded with Western Digital 1TB WD10EFRX hard drive(s).
Temperature	
Operating Temperature	5°C to 35°C (40°F to 95°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Relative Humidity	5% to 95% RH
Certification	
500	

- FCC
- CE
- BSMI
- EAC
- CCC
- KC
- VCCI
- RCM

Warranty

3-year hardware warranty, extendable to 5 years with EW201 or Extended Warranty Plus

Notes	 Availability varies by region. Before purchasing, please visit the official web pages of EW201/202 and Extended Warranty Plus for a list of eligible regions. The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more)
Environment	
RoHS Compliant	
Packaging Content	
 Main Unit X 1 Accessory Pack X 1 AC Power Cord X 1 Quick Installation Guide X 1 	
Optional Accessories	
 Expansion Units: RX418 Rail Kit Sliding: RKS-02 Rail Kit Mounted: RKM114* VisualStation: VS360HD Surveillance Device License 	Pack

Software Specs

DSM Specifications

Storage Management

Maximum Single Volume Size*	108 TB
Maximum Internal Volume Number	64
SSD TRIM	v

Supported RAID Type	 Synology Hybrid RAID Basic JBOD RAID 0 RAID 1 RAID 5 RAID 6 RAID 10
RAID Migration	 Basic to RAID 1 Basic to RAID 5 RAID 1 to RAID 5 RAID 5 to RAID 6
Volume Expansion with Larger HDDs	 Synology Hybrid RAID RAID 1 RAID 5 RAID 6 RAID 10
Volume Expansion by Adding a HDD	 Synology Hybrid RAID JBOD RAID 5 RAID 6 (with Expansion Unit) RAID 10 (with Expansion Unit)
Global Hot Spare Supported RAID Type	 Synology Hybrid RAID RAID 1 RAID 5 RAID 6 (with Expansion Unit) RAID 10 (with Expansion Unit)
Notes	 Usable capacity for each volume will be lower than the maximum volume size and is dependent on the filesystem and the amount of system metadata stored. Each internal volume (may consist of multiple drives) is expandable up to 108TB.
File Services	
File Protocol	SMB/AFP/NFS/FTP/WebDAV
Maximum Concurrent SMB/AFP/FTP Connections	200

Windows Access Control List (ACL) Integration	v
NFS Kerberos Authentication	v
Notes	The testing standard was based on the maximum number of concurrent connections supported by this model. During the testing, 25% of the connections were used to transfer files concurrently. The transfer process guaranteed that the connections were not interrupted; the minimum transfer speed was not guaranteed.

Account & Shared Folder

Maximum Local User Accounts	2,048
Maximum Local Groups	256
Maximum Shared Folder	256
Maximum Shared Folder Sync Tasks	4

Hybrid Share

Maximum Hybrid Share Folders	5
Notes	For more details about the maximum number of Hybrid Share folders, check this article.

Log Center

Syslog Events per Second	400
General Specifications	
Networking Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV
Supported Browsers	 Google Chrome Firefox Microsoft Edge Safari

Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本 語, 한국어, 繁體中文, 简体中文
Notes	For an updated list of supported browser versions, check the DSM Technical Specifications.

Add-on Packages view the complete package list

Synology Chat		
Maximum Users	500	
Notes	When applicable, systems are tested configured with maximum memory and set to allow the maximum number of connections.	
Download Station		
Maximum Concurrent Download Tasks	80	
SAN Manager		
Maximum iSCSI Target Number	128	
Maximum LUN	256	
LUN Clone/Snapshot, Windows ODX	v	
Notes	iSCSI Manager has been renamed to SAN Manager in DSM 7.0.	
Media Server		
DLNA Compliance	v	
Synology Photos		
Facial Recognition	v	

Snapshot Replication

Snapshot Replication	
Maximum Snapshots per Shared Folder	256
Maximum of System Snapshots	4,096
Surveillance Station	
Maximum IP cam (Licenses required)	30 (including 2 Free License) (see all supported IP cameras)
Total FPS (H.264)	900 FPS @ 720p (1280×720) 300 FPS @ 1080p (1920×1080) 240 FPS @ 3M (2048×1536) 150 FPS @ 5M (2591×1944) 110 FPS @ 4K (3840×2160)
Total FPS (H.265)	900 FPS @ 720p (1280×720) 450 FPS @ 1080p (1920×1080) 360 FPS @ 3M (2048×1536) 250 FPS @ 5M (2591×1944) 180 FPS @ 4K (3840×2160)
Total FPS (MJPEG)	300 FPS @ 720p (1280×720) 200 FPS @ 1080p (1920×1080) 130 FPS @ 3M (2048×1536) 80 FPS @ 5M (2591×1944)
Notes	 Maximum IP cameras and FPS figures are tested with the device fully populated with drives and under a continuous recording setup. Actual system capabilities may differ depending on system configuration, drive performance, number of features enabled, and if additional workloads are present.
Synology Drive	
Recommended Number of Concurrent Sync Clients	200 (the number of connections that can be maintained when the recommended number of hosted files was reached)
Recommended Number of Hosted Files	500,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)

Notes	 Exceeding the recommended numbers above will not block application operations, but may result in longer response time. Btrfs file system and non-encrypted shared folders were used during the aforementioned testing. 	
Synology Office		
Maximum Users	200	
Notes	 Multiple files were opened for testing and each file was edited by 30 users simultaneously. Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM 	
Video Station		
Video Transcoding	Group 2 (See more)	
VPN Server		
Maximum Connections	20	