

Product

# DS124



## Hardware Specs

CPU	
CPU Model	Realtek RTD1619B
CPU Quantity	1
CPU Architecture	64-bit
CPU Frequency	4-core 1.7 GHz
Hardware Encryption Engine	v
Memory	
System Memory	1 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	1
Compatible Drive Type* ( <a href="#">See all supported drives</a> )	<ul style="list-style-type: none"><li>• 3.5" SATA HDD</li><li>• 2.5" SATA SSD (with optional 2.5" Disk Holder)</li></ul>
Hot Swappable Drive*	-
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	1
USB 3.2 Gen 1 Port*	2

Notes	<ul style="list-style-type: none"> <li>• This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes.</li> <li>• The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.</li> </ul>
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## Appearance

Size (Height x Width x Depth)	166 mm x 71 mm x 224 mm
Weight	0.7 kg

## Others

System Fan	60 mm x 60 mm x 1 pcs
Fan Speed Mode	<ul style="list-style-type: none"> <li>• Full-Speed Mode</li> <li>• Cool Mode</li> <li>• Quiet Mode</li> <li>• Low-power Mode</li> </ul>
Brightness Adjustable Front LED Indicators	v
Power Recovery	v
Noise Level*	19.0 dB(A)
Scheduled Power On / Off	v
Wake on LAN / WAN	v
Power Supply Unit / Adapter	36 W
Redundant Power Supply	-
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption	10.69 W (Access) 3.44 W (HDD Hibernation)
British Thermal Unit	36.50 BTU/hr (Access) 11.75 BTU/hr (HDD Hibernation)

## Notes

- For more information on how power consumption is measured, refer to [this article](#).
- Noise testing was conducted with the Synology system fully installed with Synology SATA HDDs and in an idle state. Two G.R.A.S. Type 40AE microphones are placed at a 1 m distance from the front and rear of the device. Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%

## Temperature

### Operating Temperature

0°C to 40°C (32°F to 104°F)

### Storage Temperature

-20°C to 60°C (-5°F to 140°F)

### Relative Humidity

5% to 95% RH

## Certification

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

## Warranty

2-year hardware warranty, extendable to 4 years with [Extended Warranty Plus](#)

### Notes

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 Adapter X 1
- RJ-45 LAN Cable X 1
- Quick Installation Guide X 1

## Optional Accessories

Plus Series 3.5" SATA HDD: [HAT3300 Series](#)

## Software Specs

### DSM Specifications

#### Storage Management

Maximum Single Volume Size	108 TB
Maximum Internal Volume Number	1
SSD TRIM	v
Supported RAID Type	Basic
Notes	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.</li> </ul>

#### File System

Internal Drives	<ul style="list-style-type: none"> <li>• Btrfs</li> <li>• ext4</li> </ul>
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External Drives	<ul style="list-style-type: none"> <li>• Btrfs</li> <li>• ext4</li> <li>• ext3</li> <li>• FAT</li> <li>• NTFS</li> <li>• HFS+</li> <li>• exFAT</li> </ul>
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## File Services

File Protocol	<ul style="list-style-type: none"> <li>• SMB</li> <li>• AFP</li> <li>• NFS</li> <li>• FTP</li> <li>• WebDAV</li> <li>• Rsync</li> </ul>
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	1,024
Maximum Local Groups	256
Maximum Shared Folder	256
Maximum Shared Folder Sync Tasks	4

## Hyper Backup

Folder and Package Backup	v
<b>Log Center</b>	
Syslog Events per Second	400
<b>General Specifications</b>	
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"> <li>• Chrome</li> <li>• Firefox</li> <li>• Edge</li> <li>• Safari</li> </ul>
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 <a href="#">DSM Technical Specifications</a> .

## Add-on Packages [view the complete package list](#)

<b>Synology Chat</b>	
v	
<b>Download Station</b>	
Maximum Concurrent Download Tasks	80
<b>SAN Manager</b>	
Maximum iSCSI Target Number	10
Maximum LUN	10

LUN Clone/Snapshot, Windows ODX	v
<b>Media Server</b>	
DLNA Compliance	v
<b>Synology Photos</b>	
Facial Recognition	v
<b>Snapshot Replication</b>	
Maximum Snapshots per Shared Folder	256
Maximum of System Snapshots	4,096
<b>Surveillance Station</b>	
Default Licenses	2 ( <a href="#">Additional cameras require purchase of licenses</a> )
Maximum IP Cameras and Total FPS (H.264)	<ul style="list-style-type: none"> <li>• 720p: 12 channels, 360 FPS</li> <li>• 1080p: 12 channels, 300 FPS</li> <li>• 3M: 12 channels, 200 FPS</li> <li>• 5M: 12 channels, 140 FPS</li> <li>• 4K: 9 channels, 90 FPS</li> </ul>
Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none"> <li>• 720p: 12 channels, 360 FPS</li> <li>• 1080p: 12 channels, 360 FPS</li> <li>• 3M: 12 channels, 240 FPS</li> <li>• 5M: 12 channels, 200 FPS</li> <li>• 4K: 12 channels, 140 FPS</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• Performance figures are obtained from testing conducted with the device fully populated with drives under a continuous recording setup. Actual system capabilities may vary based on configuration, drive performance, enabled features, and the presence of additional workloads.</li> <li>• Use <a href="#">NVR Selector</a> to quickly find a suitable model based on your requirements.</li> </ul>



## 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 <a href="#">Synology Drive</a> . For file access through other standard protocols, refer to the File Services section above)
Notes	<ul style="list-style-type: none"><li>Exceeding the recommended numbers above will not block application operations, but may result in longer response time.</li><li>Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.</li></ul>

## Synology Office

Suggested Maximum Users	500
Suggested Concurrent Users	200
Notes	<ul style="list-style-type: none"><li>Multiple files were opened for testing and each file was edited by 30 users simultaneously.</li><li>Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM</li></ul>

## Video Station

v

## VPN Server

Maximum Connections	20
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