

# DiskStation

# DS118



Synology DiskStation DS118 is a high-performance and compact 1-bay NAS, specifically designed for offices and home users to effectively manage, protect, and share data. Its new 64-bit quad-core processor supports 10-bit 4K H.265 video transcoding to enrich multimedia entertainment. Synology DS118 is backed by Synology's 2-year limited warranty<sup>1</sup>.

## Optimal Price-Performance Ratio

Synology DS118 is a high-performance 1-bay network attached storage solution equipped with a **64-bit quad-core 1.4GHz processor** and **1GB memory**, delivering excellent sequential throughput at over **113 MB/s reading** and **112 MB/s writing**<sup>2</sup>. With **hardware accelerated encryption**, DS118 delivers encrypted data throughput at over **112 MB/s reading** and **113 MB/s writing**.

DS118 is also optimized for **10-bit 4K H.265 video transcoding**<sup>3</sup> via **Video Station**. You can organize personal digital video library with comprehensive media information, and stream 4K Ultra HD movies and films to various devices such as computers, smartphones, media players, and TVs. If your device is not capable of 4K video playback, DS118 provides online 4K video transcoding to 1080p or lower resolutions for smoother and time-saving video watching experience.

## Cross-Platform File Sharing and Data Synchronization

Synology DS118 supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows®, Mac®, and Linux® platforms. **Windows AD** and **LDAP** integration allow DS118 to fit quickly and effortlessly into any existing network environment without the necessity of creating identical user accounts. **Cloud Sync** keeps your Dropbox, Google™ Drive, Microsoft OneDrive, Baidu and Box storages in sync with your personal DiskStation at home. The **Cloud Station Suite** allows you to sync files among multiple devices — Windows PC, Mac, Linux, iOS or Android™ tablets/phones — effortlessly keeping everything up-to-date. DS118 combines seamless file sharing capability with enhanced security, even over the internet with HTTPS, built-in firewall, and multiple IP and account intrusion auto-blocking mechanisms.

## Highlights

- High-performance 1-bay NAS for small offices and home users
- Sequential throughput at over 113 MB/s reading and 112 MB/s writing<sup>2</sup>
- 64-bit quad-core 1.4GHz processor
- 10-bit 4K H.265 video transcoding on the fly<sup>3</sup>
- Running on Synology DiskStation Manager (DSM)

## Easy Backup Solutions

With block-level incremental backup and cross-version deduplication, Synology **Hyper Backup** provides multi-version backup with optimized storage utilization and allows data backup to multiple destinations, such as local shared folders, external hard drives, network shared folders, rsync servers, and public cloud services.

## Anywhere/Anytime Availability

Synology provides various mobile applications allowing you to enjoy your multimedia library even when on the go. Available on iOS, Android™, and Windows Phone® platforms, **DS photo**, **DS audio**, **DS video**, and **DS file** enable access to your Synology NAS through Photo Station, Audio Station, Video Station, and File Station. What's more, you can use **DS get** to remotely manage and monitor download tasks on Download Station.

**QuickConnect** allows you to connect via a simple customizable address so that you can instantly access media and work files on any Windows/Mac/Linux computer, laptop, or mobile device.

## Energy Efficient with Cool and Quiet Design

Synology DS118 is designed with energy efficiency in mind. Compared with its average PC counterpart, Synology DS118 consumes relatively little power at **9.4 watts** while accessing and **4.22 watts** when hard drive hibernation is enabled. The scheduled power on/off feature further reduces power consumption and operation cost.

## Running on Synology DiskStation Manager (DSM)

**Synology DiskStation Manager (DSM)** is a web-based operating system tailor-made for every Synology NAS. Featuring an intuitive multitasking user interface, DSM provides simple desktop-like experience to minimize effort in exploring and managing your Synology NAS.

The built-in **Package Center** allows you to download and install a variety of packages designed specifically for your unique needs, ranging from file backup, multimedia sharing, productivity tools, safeguard security and utilities.

With all the built-in and add-on features, DSM provides you with complete and fine-grained control of your DS118, helping you maximize productivity and make the best out of your digital assets. All will happen with just a few clicks.



### Cross-platform File Synchronization

Synology DS118 can serve as a centralized backup destination, allowing you to synchronize files from multiple devices via the Cloud Station Suite.

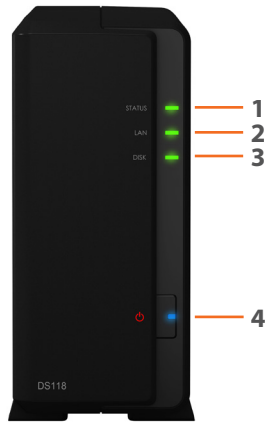


### Anytime Availability

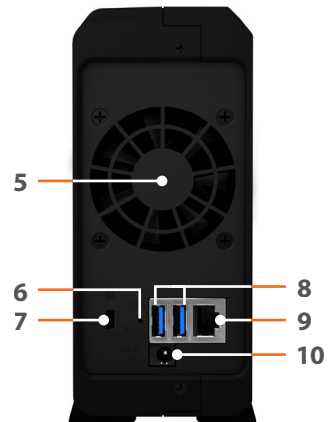
Access your DiskStation anywhere using Synology mobile apps.

## Hardware Overview

Front



Rear



1	Status indicator	2	LAN indicator	3	Drive status indicator	4	Power button and indicator
5	Fan	6	Reset button	7	Kensington Security Slot	8	USB 3.0 port
9	1GbE RJ-45 port	10	Power port				

## Technical Specifications

### Hardware

CPU	Realtek RTD1296 quad-core 1.4GHz
Hardware encryption engine	Yes
Hardware transcoding engine <sup>3</sup>	<ul style="list-style-type: none"> <li>Supported codec: MPEG-4 Part 2 (XVID, DIVX5), MPEG-2, VC-1, 10-bit H.265 (HEVC)</li> <li>Maximum resolution: 4K (4096 x 2160)</li> <li>Maximum frames per second (FPS): 60</li> </ul>
Memory	1 GB DDR4
Compatible drive type	1 x 3.5" or 2.5" SATA HDD/SSD (drive not included)
External port	2 x USB 3.0 port
Size (HxWxD)	166 x 71 x 224 mm
Weight	0.7 kg
LAN	Gigabit (RJ-45) x 1
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	60 x 60 x 15 mm
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, single phase
Operating temperature	5°C to 40°C (40°F to 104°F)
Storage temperature	-20°C to 60°C (-5°F to 140°F)
Relative humidity	5% to 95% RH
Maximum operating altitude	5,000 m (16,400 ft)

## General DSM Specification

Networking protocol	SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™, L2TP)
File system	<ul style="list-style-type: none"> <li>Internal: ext4</li> <li>External: ext4, ext3, FAT, NTFS, HFS+, exFAT<sup>4</sup></li> </ul>
Supported RAID type	Basic
Storage management	<ul style="list-style-type: none"> <li>Maximum internal volumes: 1</li> <li>Maximum iSCSI targets: 10</li> <li>Maximum iSCSI LUNs: 10</li> </ul>
File sharing capability	<ul style="list-style-type: none"> <li>Maximum local user accounts: 2,048</li> <li>Maximum local groups: 256</li> <li>Maximum shared folders: 256</li> <li>Maximum concurrent SMB/NFS/AFP/FTP connections: 200</li> </ul>
Privilege	Windows Access Control List (ACL), application privilege
Directory service	Windows® AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration
Security	Firewall, encrypted shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (Customizable cipher suite)
Supported client	Windows 7 and 10, Mac OS X® 10.11 onwards
Supported browser	Chrome®, Firefox®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards)
Interface Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svensk, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, 日本語, 한국어, 繁體中文, 简体中文

## Packages and Applications

File Station	Virtual drive, remote folder, Windows ACL editor, compressing/extracting archived files, bandwidth control for specific users or groups, creating sharing links, transfer logs
FTP Server	Bandwidth control for TCP connections, custom FTP passive port range, anonymous FTP, FTP SSL/TLS and SFTP protocol, boot over the network with TFTP and PXE support, transfer logs
Universal Search	Offer global search into applications and files
Hyper Backup	Support local backup, network backup, and backup data to public clouds
Backup tool	DSM configuration backup, macOS Time Machine support, Cloud Station Backup Shared folder sync - maximum tasks: 2
Cloud Station Suite	Sync data between multiple platforms by installing the client utilities on Windows, Mac, Linux, Android and iOS devices, while retaining up to 32 historical versions of files Maximum concurrent file transfers: 200
Cloud Sync	One or two-way synchronization with public cloud storage providers including Amazon Drive, Amazon S3-compatible storage, Baidu cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, WebDAV servers, Yandex Disk
Surveillance Station	Maximum IP cameras: 15 (total of 450 FPS at 720p, H.264) (includes two free camera licenses; additional cameras require the purchasing of additional licenses)
VPN Server	Maximum connections: 5, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
Mail Server	Supported Mail Server protocol: POP3, SMTP, IMAP, support LDAP/AD account
Mail Station	Webmail interface for Mail Server to receive emails from multiple POP3 mailboxes, customizable SMTP server
Collaboration Suite	<ul style="list-style-type: none"> <li>Chat maximum users: 500</li> <li>Office maximum users: 100, maximum simultaneous editing users: 30</li> <li>Calendar: support CalDAV and access via mobile devices</li> </ul>
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
Storage Analyzer	Volume and quota usage, total size of files, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files
Antivirus Essential	Full system scan, scheduled scan, white list customization, virus definition auto update
Download Station	Supported Download Protocols: BT, HTTP, FTP, NZB, eMule, Thunder, FlashGet, QQDL Maximum concurrent download tasks: 30
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, 3rd-party applications support
Other packages	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, additional 3rd-party packages are available on Package Center
iOS/Android™ applications	DS audio, DS cam, DS cloud, DS file, DS finder, DS get, DS note, DS photo, DS video
Windows Phone® applications	DS audio, DS file, DS finder, DS get, DS photo, DS video

## Environment and Packaging

Environment safety	RoHS compliant
Package content	<ul style="list-style-type: none"><li>• DS118 main unit</li><li>• Quick Installation Guide</li><li>• Accessory pack</li><li>• AC power adapter</li><li>• RJ-45 LAN cable</li></ul>
Optional accessories	<ul style="list-style-type: none"><li>• VisualStation VS360HD, VS960HD</li><li>• Surveillance Device License Pack</li><li>• 2.5" Disk Holder Type C</li></ul>
Warranty <sup>1</sup>	2 years

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. The warranty period starts from the purchase date as stated on your purchase receipt. The warranty period outlined in this document exclusively pertains to new products and does not apply to Return Material Authorization (RMA) or Synology Certified Refurbished products. Visit <https://www.synology.com/company/legal/warranty> for more information.
2. Performance figures may vary depending on environment, usage, and configuration.
3. DS118 can transcode 4K video to 1080p or lower. The maximum number of concurrent video transcoding channels supported may vary depending on the video codec, resolution, bitrate and FPS.
4. exFAT Access is purchased separately in Package Center.

## SYNOLOGY INC.

Synology is dedicated to taking full advantage of the latest technologies to bring businesses and home users reliable and affordable ways to centralize data storage, simplify data backup, share and sync files across different platforms, and access data on-the-go. Synology aims to deliver products with forward-thinking features and the best in class customer services.

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