Synology®

DiskStation
DS418

Synology DiskStation DS418 is a high-performance and versatile 4-bay NAS, specifically designed for offices and home users to effectively manage, protect, and share data. Its new 64-bit quad-core processor supports volume management of large-capacity storage and 10-bit 4K H.265 video transcoding to enrich multimedia entertainment. Synology DS418 is backed by Synology's 2-year limited warranty.

Optimal Price-Performance Ratio

Synology DS418 is a powerful 4-bay network attached storage solution equipped with a **64-bit quad-core 1.4GHz processor**, **2GB memory**, and **dual 1GbE** ports. With Link Aggregation enabled, DS418 delivers great sequential throughput performance at over **226 MB/s reading** and **170 MB/s writing**[1]. With **hardware accelerated encryption**, DS418 delivers encrypted data throughput at over **224 MB/s** reading and **139 MB/s** writing[1].

DS418 is also optimized for **10-bit 4K H.265 video transcoding** 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, DS418 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

DS418 supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows®, Mac®, and Linux® platforms. **Windows AD** and **LDAP** integration allows DS418 to fit quickly and effortlessly into any existing network environment without the need to repeatedly create 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. DS418 combines seamless file sharing capability with hardened security, even over the Internet with HTTPS, built-in firewall, and multiple auto-blocking mechanisms against IP and account intrusion.

Highlights

- Powerful 4-bay NAS for offices and home users
- Sequential throughput performance at over 226 MB/s reading and 170 MB/s writing[1]
- 64-bit quad-core 1.4GHz processor
- 2 GB DDR4 memory, twice the size than its predecessor
- Dual 1GbE ports with failover and Link Aggregation support
- 4K 10-bit H.265 video transcoding on the fly[2]
- Over 40TB raw single volume capacity
- New drive tray locks for asset security

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.

Cross-platform File Synchronization

Synology DS418 can serve as a centralized backup destination, allowing you to synchronize files from multiple devices via the Cloud Station Suite.
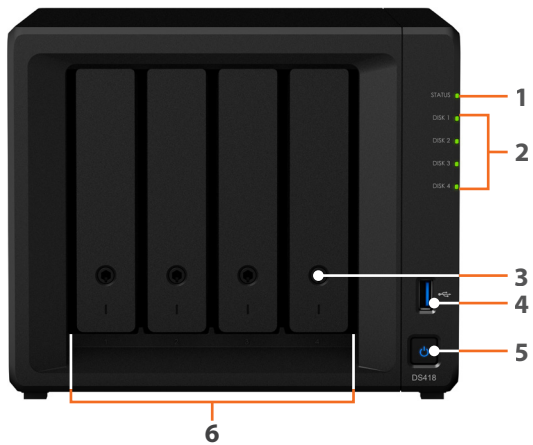
24/7 Security Solution
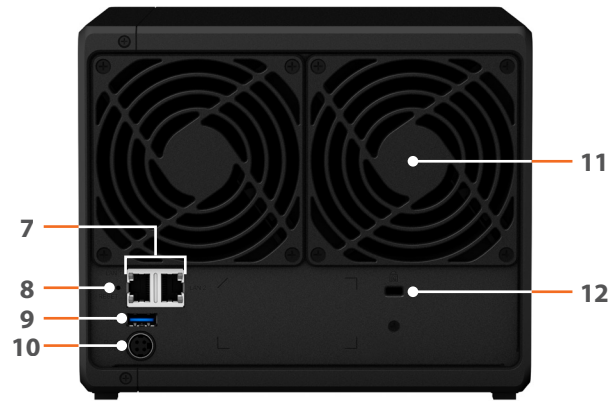
Featuring user-friendly video management tools and an intuitive desktop-like interface, Synology **Surveillance Station** is a reliable private-security solution that can support multiple IP cameras connected to the same network with DS418. Surveillance Station features optimized live view together with streamlined real-time monitoring. Its powerful analytics, such as motion detection and alert notification, allow you to stay informed of any suspicious activities with triggers sent via SMS, e-mail, and DS cam mobile application.

Anytime Availability

Access your DiskStation anywhere using Synology mobile apps.

Energy-Efficient and Easy Management

Synology DS418 is designed and developed with energy efficiency in mind. DS418 consumes only 26.49 W in regular operation. Wake on LAN/WAN and scheduled power on/off can further reduce power consumption and operational costs. With HDD hibernation, hard drives can enter the energy-saving mode automatically when the system has been idle for a specified period of time.

Hardware Overview

Front

Rear

1	Status indicator	2	Drive status indicator	3	Drive tray lock	4	USB 3.0 port
5	Power button and indicator	6	Drive tray	7	1GbE RJ-45 port	8	Reset button
9	USB 3.0 port	10	Power port	11	Fan	12	Kensington Security Slot

Technical Specifications

Hardware

CPU	Realtek RTD1296 quad-core 1.4GHz
Hardware encryption engine	Yes
Hardware transcoding engine[2]	• Supported codec: MPEG-4 Part 2 (XVID, DIVX5), MPEG-2, VC-1, 10-bit H.265 (HEVC) • Maximum resolution: 4K (4096 x 2160) • Maximum frames per second (FPS): 60
Memory	2 GB DDR4
Compatible drive type	4 x 3.5" or 2.5" SATA SSD/HDD (drives not included)
External port	2 x USB 3.0 port
Size (HxWxD)	166 x 199 x 223 mm
Weight	2.28 kg
LAN	2 x 1GbE (RJ-45)
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	2 (92 x 92 x 25 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	• Internal: ext4 • External: ext4, ext3, FAT, NTFS, HFS+, exFAT³
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Storage management	• Maximum internal volumes: 256 • Maximum iSCSI targets: 10 • Maximum iSCSI LUNs: 10
File sharing capability	• Maximum local user accounts: 2,048 • Maximum local groups: 256 • Maximum shared folders: 256 • Maximum concurrent SMB/NFS/AFP/FTP connections: 200
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 tools	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: 30 (total of 900 FPS at 720p, H.264) (includes two free camera licenses; additional cameras require the purchasing of additional licenses)
VPN Server	Maximum connections: 20, 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 tools	• Chat maximum users: 500 • Office maximum users: 100, maximum simultaneous editing users: 30 • Calendar: support CalDAV and access via mobile devices
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	• DS418 main unit x 1 • Quick Installation Guide x 1 • Accessory pack x 1 • AC power adapter x 1 • RJ-45 LAN cable x 2
Optional accessories	• VisualStation VS360HD, VS960HD • Surveillance Device License Pack
Warranty	2 years

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

1. Performance figures may vary depending on environment, usage, and configuration.
2. DS418 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.
3. 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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