

# DiskStation

# DS718+



Synology DiskStation DS718+ features a quad-core processor with AES-NI hardware encryption engine, providing outstanding performance and data encryption acceleration along with real-time transcoding of 4K content. DS718+ is ideal for protecting critical assets, and sharing files across different platforms. Synology DS718+ is backed with Synology's 3-year limited warranty.

## Compact Storage with Outstanding Performance

Featuring an **Intel® Celeron® J3455 quad-core 1.5 GHz** processor with burst frequency of **2.3 GHz** and **2 GB RAM**, Synology DiskStation DS718+ is designed for small or growing businesses pursuing a compact and powerful shared storage solution, offering the flexibility to expand up to **6 GB RAM** to process intensive workloads. With Link Aggregation enabled, DS718+ delivers up to **226 MB/s** reading and **188 MB/s** writing under RAID 1 configuration<sup>1</sup>. With AES-NI, DS718+ provides encrypted data transmission at over **226 MB/s** reading and **184 MB/s** writing<sup>1</sup>.

DS718+ comes with **three USB 3.0** ports and **dual Gigabit LAN** ports supporting failover and Link Aggregation modes. The 2-bay DS718+ can support up to 7 drives with Synology **DX517**<sup>2</sup> expansion unit.

## Btrfs: Next Generation Storage

DS718+ integrates the **Btrfs** file system, bringing the most advanced storage technologies to meet the management needs of modern businesses:

- **Flexible Shared Folder/User Quota System** provides comprehensive quota control on all user accounts and shared folders.
- **Advanced snapshot technology** with customizable backup schedule allows up to **1,024** copies of shared folder backups and **65,000** copies of system-wide snapshots, without occupying huge storage capacity and system resources.
- **File or folder level data restoration** brings huge convenience and saves time for users who wish to restore only a specific single file or folder.
- **File self-healing:** Btrfs file system can auto-detect corrupted files with mirrored metadata, and recover broken data using the supported RAID volumes, which include RAID 1, 5, 6, and 10.

## Highlights

- Powerful and scalable 2-bay NAS for growing businesses
- Encrypted sequential throughput performance at over 226 MB/s reading and 184 MB/s writing<sup>1</sup>
- Intel Celeron J3455 Quad-core processor with AES-NI hardware encryption engine
- 2 GB DDR3L-1866 memory (scalable up to 6 GB)
- Dual 1GbE LAN with failover and Link Aggregation support
- Scalable up to 7 drives with Synology DX517<sup>2</sup>
- Advanced Btrfs file system offering 65,000 system-wide snapshots and 1,024 snapshots per shared folder
- Two channels H.265/H.264 support 4K video transcoding on the fly<sup>3</sup>

## Comprehensive Business Applications

Powered by the innovative Synology **DiskStation Manager (DSM)**, DS718+ comes fully-equipped with applications and features designed specifically for small or growing businesses:

- **Windows® AD** and **LDAP** support allow easy integration with existing business directory services without recreating user accounts.
- **Windows ACL** support provides fine-grained access control and efficient privilege settings, allowing DS718+ to fit seamlessly into current infrastructure.
- Internet file access is simplified by the encrypted FTP server and Synology **File Station**, a web-based file explorer. HTTPS, firewall, and IP auto-block support ensure file sharing over the Internet is protected with a high level of security.
- **Application Privileges** controls access to applications and packages based on each individual account, user group, or IP address.
- **MailPlus** allows your business to set up a secure, reliable, and private mail server while giving your employees a modern mail client for receiving and sending messages.
- The powerful **Collaboration Suite** integrates Synology **Office**, **Calendar** and **Chat**, ensuring secure and high-performance private communications and allowing your organizations to easily manage and control the relevant content.



### 4K Ultra HD multimedia library

Real-time H.265/H.264 4K video transcoding provides hassle-free and high-quality video playback among various devices.

## Personal Multimedia Library

Synology DiskStation DS718+ features real-time **H.264/H.265 4K video transcoding** of up to **two channels**<sup>3</sup>, bringing comprehensive support to the latest multimedia file formats and contents and allowing easy file sharing across **Windows®**, **Mac®**, and **Linux®** platforms. With **Video Station**, you can organize personal digital video library with comprehensive media information and watch 4K Ultra HD movies and films. **Photo Station** allows you to effortlessly organize photos into customized categories, smart albums and blog posts, and link them to social networking websites within a few clicks. **Audio Station** comes with Internet radio and lossless audio formats support and provides music playback via DLNA or AirPlay-compliant devices.

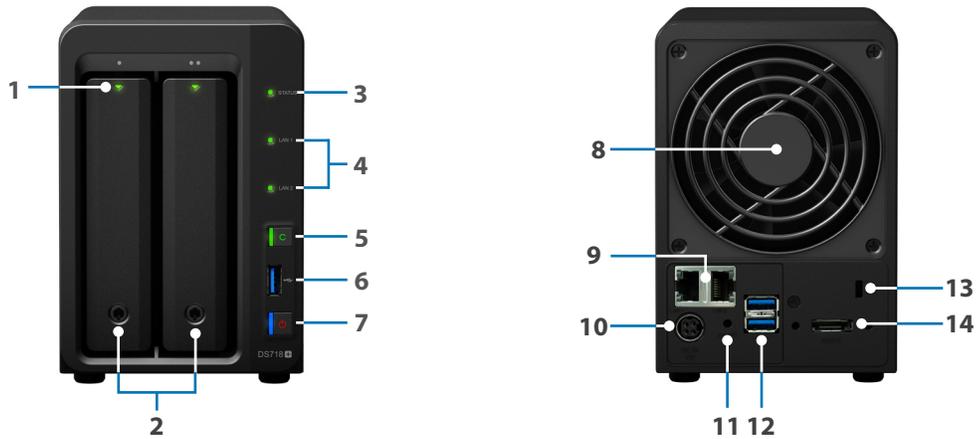
## 24/7 Smart Security Solution

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 DS718+. Surveillance Station features optimized live view together with streamlined real-time monitoring. Its powerful analytics, such as motion detection and alert notification, allows you to stay informed of any suspicious activity with triggers sent via SMS, e-mail, and **DS cam** mobile application.

## Hardware Overview

Front

Rear



1	Drive status indicator	2	Drive tray lock	3	Status indicator	4	LAN indicator
5	USB copy button	6	USB 3.0 port	7	Power button and indicator	8	Fan
9	1GbE RJ-45 port	10	Power port	11	Reset button	12	USB 3.0 port
13	Kensington Security Slot	14	eSATA port				

## Technical Specifications

### Hardware

CPU	Intel Celeron J3455 quad-core 1.5GHz, burst up to 2.3GHz
Hardware encryption engine	Yes (AES-NI)
Hardware transcoding engine	Supported codec: H.264 (AVC), H.265 (HEVC), MPEG-2 and VC-1; maximum resolution: 4K (4096 x 2160); maximum frame rate per second (FPS): 30
Memory	2 GB DDR3L (expandable up to 6 GB)
Compatible drive type	2 x 3.5" or 2.5" SATA SSD / HDD (drives not included)
External port	<ul style="list-style-type: none"> <li>• 3 x USB 3.0 port</li> <li>• 1 x eSATA port</li> </ul>
Size (HxWxD)	157 x 103.5 x 232 mm
Weight	1.74 kg
LAN	2 x 1GbE (RJ-45)
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	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 Specifications

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: Btrfs, ext4</li><li>• External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT<sup>4</sup></li></ul>
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Storage management	<ul style="list-style-type: none"><li>• Maximum single volume size: 108TB</li><li>• Maximum internal volume: 512</li><li>• Maximum iSCSI target: 32</li><li>• Maximum iSCSI LUN: 256</li><li>• iSCSI LUN clone/snapshot support</li></ul>
SSD cache	SSD read-write cache support
File sharing capability	<ul style="list-style-type: none"><li>• Maximum local user account: 2,048</li><li>• Maximum local group: 256</li><li>• Maximum shared folder: 512</li><li>• Maximum concurrent SMB/NFS/AFP/FTP connection: 500</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
Virtualization	VMware vSphere® 6, Microsoft Hyper-V®, Citrix®, OpenStack®
Security	Firewall, Encryption 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
Active Backup for Server	Centralize data backup for Windows and Linux servers without client installation
Backup tool	DSM configuration backup, macOS Time Machine support, Cloud Station Backup Shared folder sync - maximum task number: 8
Cloud Station Suite	Sync your 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 transfer: 500
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 camera: 40 (total of 1,200 FPS at 720p, H.264) (Includes two free camera licenses; additional cameras require the purchasing of additional licenses)
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM
High Availability Manager	Reduce service downtime by setting up two identical NAS into one high-availability cluster
Snapshot Replication	<ul style="list-style-type: none"><li>• Maximum of replications: 64</li><li>• Maximum of shared folder snapshots: 1,024</li><li>• Maximum of system snapshots: 65,536</li></ul>
Active Directory Server	Provide a flexible and cost-effective domain controller solution
CMS	Provide a single interface to manage and monitor multiple Synology NAS
VPN Server	Maximum connection: 20, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
MailPlus Server	Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (Includes 5 free email account licenses; additional accounts require the purchasing of additional licenses)
MailPlus	Intuitive webmail interface for MailPlus Server, customizable mail labels, filters, and user interface

Collaboration Suite	<ul style="list-style-type: none"> <li>• Chat maximum user: 1,500</li> <li>• Office maximum user: 200, maximum simultaneous editing user: 80</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 file size, volume usage and trends based on past usage, size of shared folders, largest/most/least frequently modified files
Security Advisor	Malware detection/removal, user account/password, network, system-related security scan
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 task: 80
Web Station	Virtual host (up to 30 websites), PHP / MariaDB®, third-party applications support
Other packages	Video Station, Photo Station, Audio Station, DNS Server, RADIUS Server, iTunes® Server, Log Center, third-party packages 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, MailPlus
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>• DS718+ main unit x 1</li> <li>• Quick Installation Guide x 1</li> <li>• Accessory pack x 1</li> <li>• AC power adapter x 1</li> <li>• RJ-45 LAN cable x 2</li> </ul>
Optional accessories	<ul style="list-style-type: none"> <li>• D3NS1866L-4G</li> <li>• Synology Expansion Unit DX517</li> <li>• Synology VS360HD</li> <li>• Surveillance Device License Pack</li> <li>• MailPlus License Pack</li> </ul>
Warranty	3 years

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

1. Performance figures may vary depending on environment, usage, and configuration.
2. DS718+ supports one Synology DX517, sold separately.
3. DS718+ 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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