DiskStation
DS119j

Synology DiskStation DS119j is a budget-friendly, versatile and easy-to-use 1-bay NAS with the capability to host, share and protect data for personal users. DS119j offers a variety of packages in its DSM Package Center, allowing beginners to explore the infinite possibilities of Synology NAS. Synology DS119j is backed by Synology's 2-year limited warranty.

An Ideal First NAS for Everyone

Synology DS119j is a 1-bay, entry-level network-attached storage specifically designed for personal users. With the support of Synology **DiskStation Manager (DSM)**, a web-based and intuitive multitasking operating system, DS119j is easy-to-use and ideal for users who haven't had any NAS experiences.

Powered by a dual-core processor, DS119j delivers excellent sequential throughput at over **112 MB/s reading** and **108 MB/s writing** in a Windows® environment[1]. With the support of the built-in hardware encryption engine, DS119j delivers encrypted data throughput at over **111 MB/s** reading and **67 MB/s** writing[1].

DS119j consumes only **10 watts** during access and **5 watts** during HDD hibernation. With the support of **Wake-on-LAN** and **power schedule control**, DS119j serves as a 24/7 personal storage server that is power-efficient and budget-friendly.

Easy Setup and Management

Web Assistant is a web-based utility designed for users to easily set up their Synology NAS. System installation is done with your existing web browser in just a few simple steps. It is combined with a quick start widget, allowing users to simultaneously explore the DSM operating system and complete basic system settings.

For users unfamiliar with router configurations, Synology **EZ-Internet Wizard** simplifies the process of setting up network access to DS119j by guiding users through network settings such as firewall, port-forwarding, PPPoE setup, and DDNS registration.

Highlights

- A versatile and easy-to-use 1-bay NAS for personal cloud storage
- Sequential throughput at over 112 MB/s reading and 108 MB/s writing[1]
- Dual-core CPU with hardware encryption engine
- Anytime and anywhere access with iOS and Android™ mobile apps
- Running on Synology DiskStation Manager (DSM)

Available at Anytime and Anywhere

Synology provides mobile applications for you to enjoy your multimedia library at anytime and anywhere. Available on iOS and Android™ platforms, **DS photo**, **DS audio**, **DS video**, and **DS file** allow access to your Synology NAS respectively through **Photo Station**, **Audio Station**, **Video Station**, and **File Station**. **QuickConnect** allows connection to your Synology NAS via a secure and customizable address, so that you can instantly access media and work files on any Windows, Mac, Linux computer, and mobile device.

Cross-Platform File Sharing and Data Synchronization

Synology DS119j supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows, Mac®, and Linux® platforms. **Windows AD** and **LDAP** integration allow DS119j to fit quickly and effortlessly into any existing network environment, without needing to create identical user accounts. **Cloud Sync** keeps your Dropbox, Google™ Drive, Microsoft OneDrive, Baidu, and Box storage in sync with your personal DiskStation at home. **Cloud Station Suite** allows you to sync files across Windows, macOS, Linux, and mobile devices, effortlessly keeping everything up-to-date. DS119j combines seamless file sharing capability with a high level of security, including HTTPS support, a built-in firewall, and multiple IP and account intrusion auto-blocking mechanisms.

Easy Backup Solutions

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

Running on Synology DiskStation Manager (DSM)

DSM is a web-based operating system that provides private cloud services. It is designed to simplify your daily task management. The multitasking web interface allows you to run multiple applications simultaneously on one browser tab and instantly switch between them. The intuitive DSM allows you to effortlessly configure storage capacity, gives you complete control over your personal cloud, and lets you access your Synology NAS from anywhere. The built-in **Package Center** allows you to download and install the packages designed to satisfy different user needs, such as sharing files on the cloud, sharing photos on an online album, or setting up a VPN environment. Tasks can be done with just a few steps.
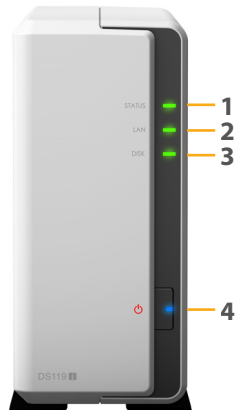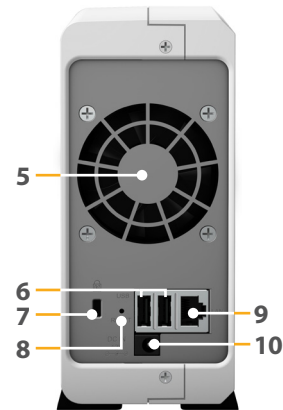
Effective Sync & Backup Solution

Synology DS119j can serve as a centralized backup destination, allowing files to be backed up from multiple devices via Cloud Station Suite.

Hardware Overview

Front   Rear

1	Status indicator	2	LAN indicator	3	Drive status indicator	4	Power button and indicator
5	Fan	6	USB 2.0 port	7	Kensington Security Slot	8	Reset button
9	1GbE RJ-45 port	10	Power port				

Technical Specifications

Hardware

CPU	Marvell A3720 dual-core 800MHz
Hardware encryption engine	Yes
Memory	256 MB DDR3L
Compatible drive type	1 x 3.5" or 2.5" SATA HDD (drive not included)[2]
External port	2 x USB 2.0 port
Size (HxWxD)	166 x 71 x 224 mm
Weight	0.7 kg
LAN	1 x Gigabit (RJ-45)
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	1 (60 x 60 x 15 mm)
AC input power voltage	100V to 240V AC
Power frequency	50/60Hz, single phase
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
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+, exFAT[3]
Supported RAID type	Basic
Storage management	• Maximum iSCSI targets: 10 • Maximum iSCSI LUNs: 10
File sharing capability	• Maximum local user accounts: 512 • Maximum local groups: 128 • Maximum shared folders: 256 • Maximum concurrent SMB/NFS/AFP/FTP connections: 50
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, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文

Packages and Applications

File Server & Synchronization	
Drive	Provide universal portal to synchronize your files across various platforms, including Windows, macOS, Linux, Android and iOS. The built-in universal portal allows you to access data anytime and anywhere. • Maximum Number of Hosted Files: 10,000 • Maximum Number of Concurrent Connections for PC Clients: 5
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
Cloud Sync	One or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, Amazon Drive, Amazon S3-compatible storage, Backblaze B2, Baidu Cloud, Box, Dropbox, Google Cloud Storage, Google Drive, hubiC, MegaDisk, Microsoft OneDrive, OpenStack Swift-compatible storage, Tencent COS, WebDAV servers, Yandex Disk
Universal Search	Offer global search into applications and files
Data Protection & Backup Solution	
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
Productivity & Collaboration	
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
Multimedia	
Moments	Offer photo editing and sharing features, and provide iOS and Android mobile applications
Other packages	Video Station, Photo Station, Audio Station, iTunes® Server
Surveillance	
Surveillance Station	Maximum IP cameras: 5 (total of 150 FPS at 720p, H.264) (includes two free camera licenses; additional cameras require the purchasing of additional licenses)
All-in-One Server	
VPN Server	Maximum connection: 10, 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
Web Station	Virtual host (up to 30 websites), PHP/MariaDB®, 3rd-party applications support
Other packages	DNS Server, RADIUS Server, Log Center
Others	
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
iOS/Android™ applications	Synology Drive, DS audio, DS photo, DS video, DS cam, DS cloud, DS file, DS finder, DS note, Moments
Other packages	Additional 3rd-party packages available on Package Center

Environment and Packaging

Environment safety	RoHS compliant
Package content	• DS119j main unit • Quick Installation Guide • Accessory pack • AC power adapter • RJ-45 LAN cable
Optional accessories	• VisualStation VS360HD, VS960HD • Surveillance Device License Pack • 2.5" Disk Holder Type C
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. A disk holder is required for 2.5" drive.
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.

DS119j-2018-ENU-REV001

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