

# DiskStation DS120j



## An Ideal First NAS for Everyone

Synology DiskStation DS120j is a budget-friendly and easy-to-use 1-bay NAS for storing, sharing and protecting personal data. DS120j offers a variety of applications, allowing beginners to explore the convenient functionality of a Synology NAS. DS120j is backed by Synology's 2-year limited warranty<sup>1</sup>.

### Highlights

- An easy-to-use 1-bay personal cloud storage for NAS starters
- Sequential throughput at over 112 MB/s reading and 106 MB/s writing<sup>2</sup>
- Cross-device file sharing and syncing platform
- Reliable computer backup companion for Windows®/ macOS® and photos from mobile devices
- Freely access your files on the go with iOS and Android™ mobile apps

## Easy-to-Use and Power-Saving Personal Cloud

Synology DS120j is a 1-bay entry-level network-attached storage solution designed for personal users. With Synology **DiskStation Manager (DSM)**, an intuitive web-based operating system, DS120j is easy-to-use and suitable for even first-time NAS users.

Powered by a 2-core processor, DS120j delivers excellent sequential throughput at over **112 MB/s reading** and **106 MB/s writing** in a Windows® environment<sup>2</sup>. Consuming only **9.81 watts** during access and **4.68 watts** during HDD hibernation, DS120j is power-efficient and ideal to serve as a 24/7 personal storage server.



### Cross-platform file sharing

*DSM comes with comprehensive support of networking protocols — FTP, SMB2, SMB3 (encrypted), AFP, NFS, and WebDAV — and provides seamless file sharing across Windows®, macOS®, and Linux® platforms.*

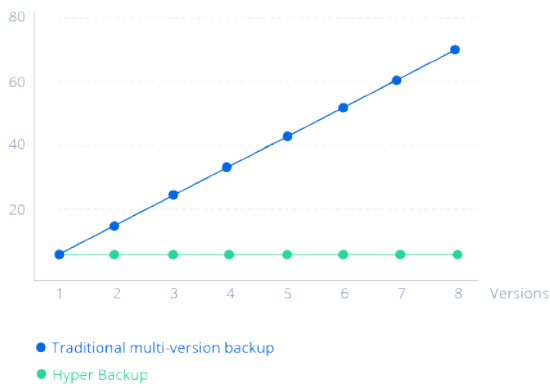
## Cross-Platform File Sharing and Data Synchronization

Synology DS120j supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows®, macOS®, and Linux® platforms. **Cloud Sync** keeps your Dropbox, Google™ Drive, Microsoft® OneDrive, Baidu, and Box storage in sync with your personal DiskStation at home. **Synology Drive** allows you to synchronize files across Windows, macOS, Linux, and mobile devices, effortlessly keeping everything up-to-date. DS120j 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.

## Your Personal Multimedia Library

DS120j helps you easily manage your multimedia content and share it across Windows, macOS, and Linux platforms. With **Video Station**, you can organize your personal digital video library using comprehensive media information. **Audio Station** comes with Internet radio, lossless audio format support, and provides music playback via DLNA and AirPlay® devices. **Photo Station**'s intuitive design allows professional photographers to effortlessly organize photos into customized categories, smart albums, and link them to social media sites with just a few clicks. As a brand-new photo solution for personal and home use, **Moments** promises users a modern browsing experience by offering mobile photo backup, photo sharing, and similar photo detection.

Storage Usage (GB)



### Safe data backup with storage optimization

Synology **Hyper Backup** supports block-level incremental backup, which drastically reduces the storage required for multi-version backup while keeping as many recovery points as your data might need.

## 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.

**Synology Drive Client** backs up your Windows, Mac, and Linux computers to safeguard important files. DS120j is also compatible with Time Machine®, allowing you to effortlessly back up your Mac® to Synology NAS.

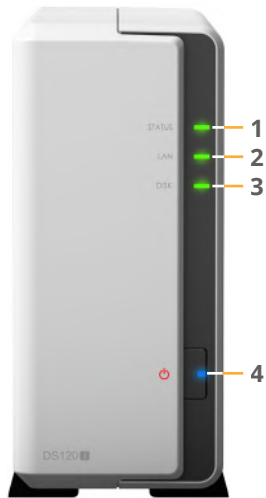
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## Available Anytime and Anywhere

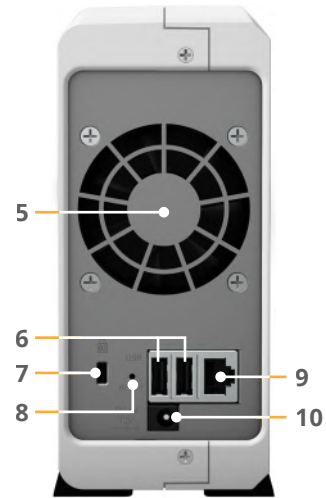
Synology provides mobile applications for you to enjoy your multimedia library anytime and anywhere. Available on iOS and Android™ platforms, **DS photo**, **DS audio**, **DS video**, and **DS file** allow access to your Synology NAS respectively through **Photo Station**, **Audio Station**, **Video 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 computers, and mobile devices.

## 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 2-core 800MHz
Hardware encryption engine	Yes
Memory	512 MB DDR3
Compatible drive type	1 x 3.5" or 2.5" SATA HDD <sup>3</sup> (drive not included)
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	100 V to 240 V AC
Power frequency	50/60 Hz, 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	<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 single volume size: 108 TB</li> <li>Maximum internal volume: 1</li> </ul>
File sharing capability	<ul style="list-style-type: none"> <li>Maximum local user account: 512</li> <li>Maximum local group: 128</li> <li>Maximum shared folder: 256</li> <li>Maximum concurrent SMB/NFS/AFP/FTP connection: 50</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, shared folder encryption, 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 onwards, Mac OS X® 10.11 onwards
Supported browser	Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards; Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets
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	
Synology Drive	<p>Provide a 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.</p> <ul style="list-style-type: none"> <li>Maximum number of hosted files: 10,000</li> <li>Maximum number of concurrent connections for PC clients: 5</li> </ul>
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
iSCSI Storage	
iSCSI Manager	<ul style="list-style-type: none"> <li>Maximum iSCSI target: 10</li> <li>Maximum iSCSI LUN: 10</li> </ul>
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, Synology Drive Client desktop application Shared folder sync - maximum task number: 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, similar & duplicate photos detection and iOS and Android mobile applications
Other packages	Video Station, Photo Station, Audio Station, iTunes® Server
Surveillance	
Surveillance Station	Maximum IP camera: 5 (total of 150 FPS at 720p, H.264) (Including 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 Protocols: 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®, third-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, large files, most recently modified files, least recently accessed 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 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	<ul style="list-style-type: none"> <li>• DS120j 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	2 years <sup>1</sup>

\*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. Visit <https://www.synology.com/company/legal/warranty> for more information.
2. Performance figures may vary depending on environment, usage, and configuration.
3. A disk holder is required for 2.5" drive, which is sold separately.
4. exFAT Access is sold separately in Package Center.



## SYNOLOGY INC.

Synology creates network-attached storage, IP surveillance solutions, and network equipment that transform the way users manage data, conduct surveillance, and manage networks in the cloud era. By taking full advantage of the latest technologies, Synology aims to help users centralize data storage and backup, share files on-the-go, implement professional surveillance solutions, and manage networks in reliable and affordable ways. Synology is committed to delivering products with forward-thinking features and the best in class customer services.

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