

# 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

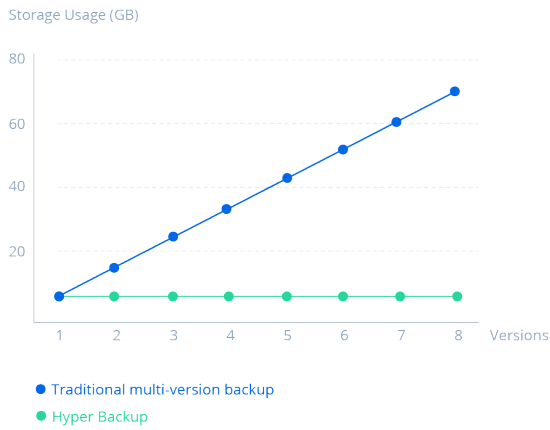
*DSM comes with comprehensive support of networking protocols — FTP, SMB2, SMB3 (encrypted), AFP, NFS, and WebDAV — and provides seamless file sharing across Windows®, macOS®, and Linux® platforms.*

## 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.



## 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

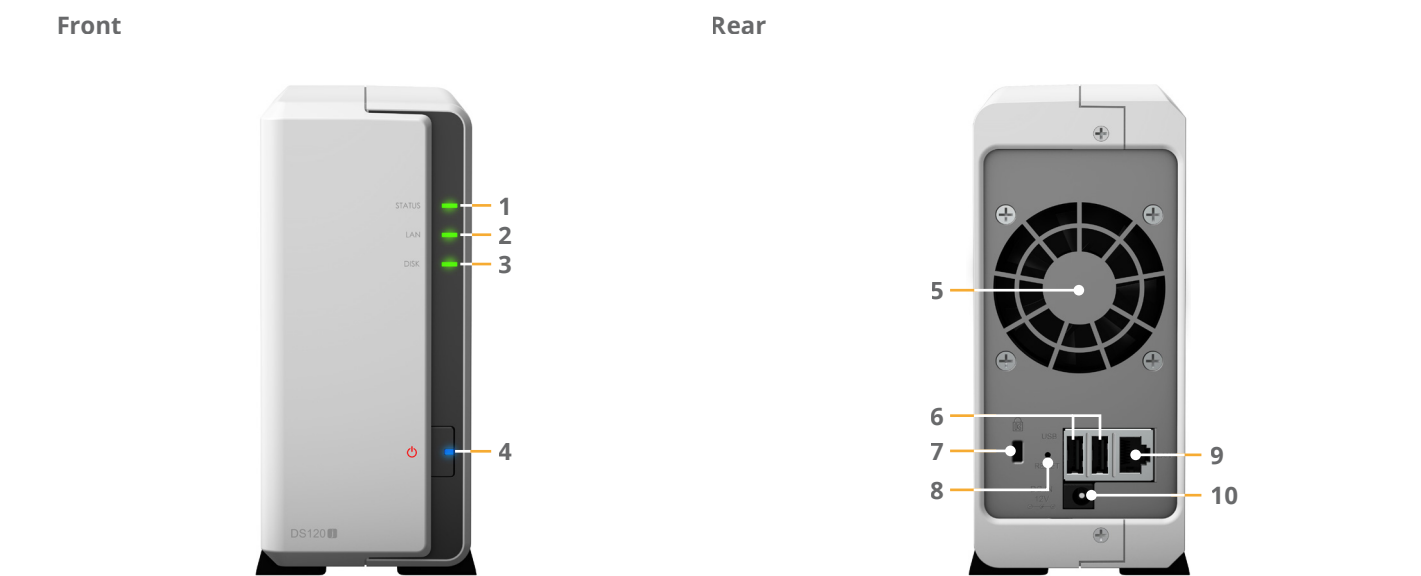
Synology **Hyper Backup** provides multi-version backup with block-level incremental backup and cross-version deduplication. It optimizes storage utilization and allows data to be backed up to multiple destinations such as local shared folders, external hard drives, network shared folders, rsync servers,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

## 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



|   |                  |    |               |   |                          |   |                            |
|---|------------------|----|---------------|---|--------------------------|---|----------------------------|
| 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                    | 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. <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<br>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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## Headquarters

Synology Inc. 9F., No.1, Yuandong Rd., Banqiao Dist., New Taipei City 220, Taiwan Tel: +886 2 2955 1814 Fax: +886 2 2955 1884

### China

Synology Shanghai  
200070, Room 201, No. 511 Tianmu W.  
Rd., Jingan Dist. Shanghai, China

### France

Synology France SARL  
102 Terrasse Boieldieu (TOUR W)  
92800 Puteaux, France  
Tel: +33 147 176288

### North & South America

Synology America Corp.  
3535 Factoria Blvd SE #200 Bellevue,  
WA98006, USA  
Tel: +1 425 818 1587

### United Kingdom

Synology UK Ltd.  
Unit 5 Danbury Court, Linford Wood,  
Milton Keynes, MK14 6PL, United Kingdom

### Germany

Synology GmbH  
Grafenberger Allee 295 40237 Düsseldorf  
Deutschland  
Tel: +49 211 9666 9666

### Japan

Synology Japan Co., Ltd  
4F, 3-1-2, Higashikanda, Chiyoda-ku,  
Tokyo, 101-0031, Japan