

DiskStation DS220j



Household Cloud Solution for Data Sharing and Backup

Synology DiskStation DS220j is an entry-level network-attached storage for your household to store and share photos, videos, documents, and all types of personal data. The 2-bay private cloud solution provides complete and intuitive data protection approaches for you to easily back up computer data and mobile photos, with just a few clicks.

Highlights

- **A Simple-to-Use Private Cloud for Everyone**
24/7 file server for your household to store, share, and backup personal data
- **Easy-to-Use**
Award-winning DiskStation Manager (DSM) brings intuitive operation flow and reduces learning curve
- **Seamless File Sharing**
Access and share data with any Windows®, macOS®, and Linux® computers or mobile devices
- **On-the-Fly Streaming**
Integrated media server to support multimedia content streaming
- **Anytime, Anywhere**
Freely access private cloud files on-the-go and back up mobile photos with iOS and Android™ apps
- **Data Guardian**
Safeguard digital assets with cross-platform computer backup applications



24/7, Private Cloud Solution for Home Users

Forget and leave your USB drives behind. Synology DS220j is an entry-level network-attached storage supporting RAID 1 configuration to prevent data from sudden drive failure. Consuming only **12.46 watts** during access and **5.06 watts** during HDD hibernation, DS220j is energy-saving and ideal to serve 24/7 without depleting your wallet. With high data transmission speed at over **112 MB/s sequential reading and writing²**, your household members can smoothly store, share, and back up data whenever your want.



Synology DiskStation Manager (DSM)

DSM is a web-based operating system that provides an intuitive data management experience and supports different computer platforms.

Powered by 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 clicks.

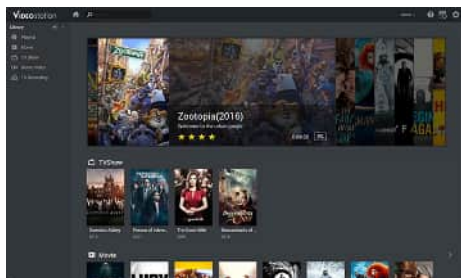
Cross-platform File Sharing and Data Synchronization

Synology DS220j 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 different computer and mobile platforms, effortlessly keeping everything up-to-date. DS220j 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.



Cross-platform File Sharing

DS220j 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.



Personal Multimedia Bank

Real-time video streaming provides hassle-free and high-quality video playback among various devices.

Your Personal Multimedia Library

DS220j helps you easily manage and share your multimedia content. 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, image recognition, and similar photo detection.

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.

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 provides real-time or scheduled backup of important folders of your computers to prevent accidental deletion and ransomware threats.

Hardware Overview

Front

Diagram of the front view of the Synology DS220j NAS. It shows a vertical white unit with a black front panel. Numbered callouts point to: 1. Status indicator (top left), 2. LAN indicator (top left), 3. Drive status indicator (top right, bracketed), and 4. Power button and indicator (bottom center).

Rear

Diagram of the rear view of the Synology DS220j NAS. It shows a vertical white unit with a black rear panel. Numbered callouts point to: 5. Fan (top center), 6. USB 3.0 port (bottom left), 7. Reset button (bottom left), 8. Power port (bottom center), 9. 1GbE RJ-45 port (bottom right), and 10. Kensington Security Slot (bottom right).

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

Technical Specifications

Hardware	
CPU	Realtek RTD1296 4-core 1.4 GHz
Hardware encryption engine	Yes
Memory	512 MB DDR4
Compatible drive type	2 x 3.5" or 2.5" SATA HDD ³ (drive not included)
External port	2 x USB 3.0 port
Size (HxWxD)	165 x 100 x 225.5 mm
Weight	0.88 kg
LAN	1 x Gigabit (RJ-45)
Wake on LAN/WAN	Yes
Scheduled power on/off	Yes
System fan	1 (92 x 92 x 25 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	- Internal: ext4 - External: ext4, ext3, FAT, NTFS, HFS+, exFAT^a
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1
Storage management	- Maximum single volume size: 108 TB - Maximum internal volume: 64
File sharing capability	- Maximum local user account: 1024 - Maximum local group: 256 - Maximum shared folder: 256 - Maximum concurrent SMB/NFS/AFP/FTP connection: 100
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. - Maximum number of hosted files: 100,000 - Maximum number of concurrent connections for PC clients: 200
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	- Maximum iSCSI target: 10 - Maximum iSCSI LUN: 10
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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

Collaboration tools	Collaborate with instant message service Synology Chat, online editor Synology Office, and scheduling assistant Synology Calendar - Chat maximum user: 10 - Office maximum user: 200 - Calendar: support CalDAV and access via mobile devices
Note Station	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments

Multimedia

Moments	Support smart AI album with facial recognition, similar photo detection, and photo editing and sharing features. Mobile applications are available on iOS and Android devices.
Other packages	Video Station, Photo Station, Audio Station, iTunes® Server

Surveillance	
Surveillance Station	Maximum IP camera: 12 (total of 360 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. LDAP/AD account support
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	• DS220j main unit • Quick Installation Guide • Accessory pack • AC power adapter • RJ-45 LAN cable
Optional accessories ⁵	• VisualStation VS360HD, VS960HD • Surveillance Device License Pack • 2.5" Disk Holder Type C
Warranty	2 years ¹

*Model specifications are subject to change without notice. Please refer to www.synology.com for 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.
5. Please refer to www.synology.com/compatibility for the latest optional accessory list.

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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DS220j-2020-ENU-REV001

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