Synology[®]

DiskStation

DS720+



Capacity-scalable NAS with SSD Cache Acceleration Capability

Synology DiskStation DS720+ is a compact network-attached storage solution designed to streamline data and multimedia management. Two built-in M.2 SSD slots and Synology SSD Cache technology allow you to boost system I/O and application performance. With scalable storage design, DS720+ lets you start small and expand storage capacity with the Synology DX517 as your data grows¹.

Highlights

- Accelerated Application Performance
 Average 15% performance boost to photo indexing and other computing-intensive operations, as well as database response time²
- Reach Optimal Performance and Capacity with SSD Cache

Built-in M.2 2280 NVMe SSD slots permit cache acceleration without occupying storage drive bays

- Expand Storage with Ease

 Flexibly scale up to seven drives to increase storage

 capacity as demand grows
- Empower Collaboration and Productivity
 Build an on-premises, multi-user collaboration environment with fine-grained control
- Protect and Restore Data in a Snap
 Back up critical data and reduce your Recovery Time
 Objective (RTO) with Snapshot Replication
- Safeguard Your Physical Assets with 24/7
 Surveillance

Feature-rich Surveillance Station with user-friendly management tools

Synology Collaboration Suite

A powerful and secure private cloud solution that lets teams collaborate, sync files, and communicate with others anytime, anywhere.

Streamline Your Data Management Experience

Synology DS720+ is a powerful 2-bay desktop NAS that brings you a fast and smooth data management experience, as well as **225 MB/s sequential read** and **195 MB/s sequential write** throughput³. It benefits computing-intensive applications, speeding up **Synology Drive** and **Moments** by an average 15%², and boosting **Web PHP response efficiency** by about 130% compared to its predecessor, making data management simple and efficient.

DS720+ comes with two built-in **M.2 SSD slots** that support **Synology SSD Cache technology**, allowing you to reduce random I/O response time 20 times compared with mechanical drives without occupying front drive bays. You can add five more drives with Synology DX517 for higher storage capacity¹.

On-premises Collaboration & Synching Solution

DS720+ comes with **Synology Collaboration Suite**, the productivity and file sharing solution that powers team collaboration while leveraging the advantages of the private cloud to fully control data and prevent data leaks -- through HTTPS support, a built-in firewall, and multiple IP and account intrusion auto-blocking mechanisms.

- Synology Drive enables data synchronization and backup via web
 portal and desktop applications across Windows®, macOS®, and Linux®
 platforms. Intelliversioning saves historical versions while minimizing
 storage space use and supports on-demand data restoration.
- **Synology Office** includes Documents, Spreadsheets, and Slides. Its online editing environment allows multiple users to edit, comment, and share company data simultaneously -- at no additional license fee.
- Synology MailPlus is a reliable mail server, accessible through an intuitive web-based client, that helps users to manage emails and increase productivity. MailPlus supports deployment in High-Availability clusters.
- Synology Chat enables instant conversations and optimizes team communications with powerful features including message encryption, pinning, forwarding, reminders, and scheduling.





Next-Generation File System

Btrfs is a modern file system designed to safeguard data integrity through metadata mirroring, file selfhealing, and fast snapshot replication.



Synology Backup Suite

A centralized, integrated, and license-free backup solution to protect every bit of your data.

Establish a Strong Storage Foundation with Btrfs

DS720+ features a **Btrfs file system** optimized by Synology to offer you high reliability and high performance. Btrfs supports advanced storage technologies that meet the needs of modern business:

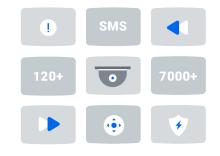
- Advanced snapshot technology provides schedulable and near-instantaneous data protection of shared folders and LUNs.
- **File and folder level data restoration** offers users who wish to restore only a specific file or folder more flexibility.
- Flexible Shared Folders and User Quota System provide comprehensive quota control on all user accounts and shared folders.
- File self-healing allows Btrfs file systems to auto-detect corrupted files using mirrored metadata and to recover broken data using RAID configurations.
- **Inline compression** compresses data before writing them to the drive, to optimize storage use and reduce write commands to the drives.

Powerful Backup Tools

DS720+ offers users a range of backup solutions for cloud and physical, on-premises environments. Backing up and restoring data is effortless – and completely free of licenses on compatible NAS models.

- Back up your cloud data: Cloud Sync enables users to seamlessly back up or synchronize data between a local Synology NAS and other cloud services.
- Back up your PCs and servers: Synology Drive Client backs up your Windows®, Mac®, and Linux® desktop devices to safeguard important computer files.
- Back up your Synology NAS: **Hyper Backup** offers a wide range of destinations for backups of your NAS, including on-premises and cloud.





Always On Guard

Protect your home and office with Synology's reliable and intuitive security solution. Surveillance Station combines intelligent monitoring and video management tools to safeguard your valuable assets.

Automated Video Surveillance System

With **Synology Surveillance Station**, DS720+ can act as a full-featured video surveillance system. Simply add network-connected cameras and you can monitor their live feeds, play back recordings, and receive instant event alerts right away⁴.

- Works with more than 7,300 IP cameras: Pick any compatible model that suits your requirements and budget, or use the LiveCam app to turn an old smartphone into an IP camera.
- No subscription fee: Unlike security cameras that require monthly cloud storage subscription, all your recordings are stored on the DS720+, 100% under your control.
- Remote monitoring & control: Access your surveillance system from a web browser, the desktop client, or the DS cam mobile app anytime, anywhere.
- Automation & notification: Set up rules to trigger specific actions
 when predefined events occur, such as automatically taking snapshots
 when motion is detected. Get notified by email, SMS, or push
 notification so that you can intervene in time.



Hardware Overview

Front

Rear





| 1 | Drive tray | 2 | Drive tray lock | 3 | Status indicator | 4 | Drive status indicator |
|---|--------------------|----|----------------------------|----|------------------|----|--------------------------|
| 5 | USB 3.2 Gen 1 port | 6 | Power button and indicator | 7 | System fan | 8 | 1GbE RJ-45 port |
| 9 | Reset button | 10 | eSATA port | 11 | Power port | 12 | Kensington Security Slot |

Technical Specifications

Hardware

| CPU | Intel Celeron J4125 4-core 2.0 GHz, burst up to 2.7 GHz |
|----------------------------|--|
| Hardware encryption engine | Yes (AES-NI) |
| Memory | 2 GB DDR4 onboard (expandable up to 6 GB) ⁵ |
| Compatible drive types | 2 x 3.5" or 2.5" SATA HDD/SSD (drives not included) 2 x M.2 2280 NVMe SSD (drives not included) |
| Hot swappable drives | Yes |
| External ports | 2 x USB 3.2 Gen 1 port1 x eSATA port |
| Size (HxWxD) | 166 x 106 x 223 mm |
| Weight | 1.51 kg |
| LAN ports | 2 x GbE RJ-45 |
| Wake on LAN/WAN | Yes |
| Scheduled power on/off | Yes |
| System fans | 92 x 92 x 25 mm |
| AC input power voltage | 100 V to 240 V AC |
| Power consumption | 50/60Hz, single phase |
| Power frequency | Access: 16.44 W HDD Hibernation: 6.19 W |
| 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 protocols | SMB, AFP, NFS, FTP, WebDAV, CalDAV, iSCSI, Telnet, SSH, SNMP, VPN (PPTP, OpenVPN™ , L2TP) |
|---------------------------|---|
| File systems | Internal: Btrfs, ext4 External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT⁶ |
| Supported RAID types | Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1 |
| Storage management | Maximum single volume size: 108TB Maximum system snapshots: 65,536⁷ Maximum internal volumes: 64 |
| SSD cache | Read/write cache supportM.2 NVMe SSD support |
| File sharing capabilities | Maximum local user accounts: 2,048 Maximum local groups: 256 Maximum shared folders: 512 Maximum concurrent SMB/NFS/AFP/FTP connections: 500 |
| Privileges | Windows Access Control List (ACL), application privileges |
| Directory services | Windows® AD integration: Domain users login via SMB/NFS/AFP/FTP/File Station, LDAP integration |
| Virtualization | VMware vSphere® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack® |
| 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 clients | Windows® 7 onwards, macOS® 10.12 onwards |
| Supported browsers | Chrome®, Firefox®, Edge®, Internet Explorer® 10 onwards, Safari® 10 onwards, Safari (iOS 10 onwards), Chrome (Android™ 6.0 onwards) on tablets |
| Interface languages | 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 & Synchronizati | on | | | |
|-----------------------------------|---|--|--|--|
| Drive | Synchronizes files across Windows®, macOS®, Linux®, Android™ and iOS. The built-in cross-platform portal allows access to data anytime and anywhere. • Maximum number of hosted files: 500,000 • Maximum number of concurrent connections for PC clients: 350 | | | |
| File Station | Provides virtual drives, remote folders, Windows® ACL editor, compression/extraction of archived files, bandwidth control for specific users/groups, creation of sharing links, and transfer logs. | | | |
| FTP Server | Supports bandwidth control for TCP connections, custom FTP passive port ranges, anonymous FTP, FTP over TLS/SSL and SFTP protocols, network booting with TFTP and PXE support, and transfer logs. | | | |
| Presto File Server ⁸ | Enables high-speed data transfer over WAN through the exclusive SITA technology between Synology NAS and desktop. | | | |
| Cloud Sync | Offers one or two-way synchronization with public cloud storage providers including Alibaba Cloud OSS, 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 and Yandex Disk. | | | |
| Universal Search | Enables global search of applications and files. | | | |
| iSCSI Storage & Virtualizati | on | | | |
| iSCSI Manager | Maximum iSCSI targets: 128 Maximum iSCSI LUNs: 256 iSCSI LUN clone/snapshot support | | | |
| Virtual Machine Manager | Deploys and runs various virtual machines on Synology NAS, including Windows®, Linux®, or Virtual DSM | | | |
| Data Protection & Backup Solution | | | | |
| Hyper Backup | Supports 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 supports a maximum of 8 tasks | | | |
| Snapshot Replication | Maximum number of snapshots for shared folders: 1,024 Maximum number of replications: 32 | | | |



| Synology High Availability | Supports backup and restoration of Google Workspace My Drive, Team Drive, Gmail, Contacts, and Calendar. |
|---------------------------------------|--|
| Active Backup for Google Workspace | Supports backup and restoration of Microsoft 365 OneDrive for Business, mail, contacts, and calendar. |
| Active Backup for Microsoft 365 | An all-in-one backup solution designed for heterogeneous business IT environments. It enables IT admins to remotely manage and protect PCs, servers, and VMs from one centralized console. |
| Active Backup for Business | All-in-one backup solution designed for heterogeneous business IT environment, enabling IT admins to remotely manage and monitor protection over PC, servers and VM on one centralized console |
| Productivity & Collaboration | |
| Collaboration tools | Users can collaborate through the instant messaging service Synology Chat, the online editor Synology Office, and the scheduling assistant Synology Calendar. • Maximum users for Chat: 1,500 • Maximum users for Office: 3,400 • Calendar supports CalDAV and access via mobile devices |
| Note Station | A note taking platform that supports rich text, note organization and versioning, encryption, sharing, media embedding, and attachments. |
| Synology MailPlus Server | A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering. |
| Synology MailPlus | An intuitive webmail interface for Synology MailPlus Server with customizable mail labels, filters, and user interface. |
| Multimedia | |
| Moments | A feature-rich photo management application that includes Al-powered album creation from facial and subject recognition, photo editing and sharing capabilities, similar photo detection for duplicate management, auto-editing functions such as color correction and angle adjustments, and auto-selection of the best shots. Mobile applications are available on iOS and Android™ devices. |
| Other packages | Video Station, Photo Station, Audio Station, iTunes® Server |
| Surveillance | |
| Surveillance Station | Maximum IP cameras: 40, for a total of 1,200 FPS at 720p (H.264). |
| All-in-One Servers | |
| Synology Directory Server | Provides a flexible and cost-effective domain controller solution. |
| Central Management System | Provides a single interface to manage and monitor multiple Synology NAS. |
| VPN Server | Maximum connections: 30 Supported VPN protocols: PPTP, OpenVPN™, L2TP/IPSec |
| Mail Server | Supported Mail Server protocols: POP3, SMTP, IMAP LDAP/AD account support |
| Mail Station | A webmail interface for Mail Server to receive emails from multiple POP3 mailboxes and SMTP servers. |
| Web Station | Enables hosting for up to 30 websites with support for PHP/MariaDB® and 3rd-party applications. |
| Other packages | DNS Server, RADIUS Server, Log Center |
| Others | |
| Storage Analyzer | Displays 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, and least recently accessed files. |
| Antivirus Essential | Provides full system scans, scheduled scans, white list customization, and auto-update of virus definitions. |
| iOS/Android™ applications | Synology Drive, Synology MailPlus, Synology LiveCam, Moments, DS audio, DS photo, DS video, DS cam, DS file, DS finder, DS note |
| Other packages | Additional 3rd-party packages are available in the Package Center. |
| Environment and Packagin | ng |
| Environment safety | RoHS compliant |
| Package content | DS720+ main unit x 1 Quick Installation Guide x 1 Accessory pack x 1 AC power adapter x 1 AC power cord x 1 RJ-45 LAN cable x 2 |



| Optional accessories ⁹ | DDR4 non-ECC SO-DIMM 4 GB (D4NESO-2666-4G) Synology Expansion Unit DX517 VisualStation VS360HD, VS960HD Surveillance Device License Pack MailPlus License Pack Virtual DSM License Pack |
|-----------------------------------|--|
| Warranty | 3 years ¹⁰ |

*Model specifications are subject to change without notice. Please refer to www.synology.com for the latest information.

- 1. DS720+ supports up to one Synology Expansion Unit DX517, sold separately.
- 2. Performance figures are based on the average percentage improvement of DS720+ relative to its predecessor, as tested at Synology labs. Test items include file indexing in Synology Drive and photo indexing in Moments.
- 3. Performance figures may vary depending on environment, usage, and configuration.
- 4. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses.
- 5. DS720+ comes with 2 GB DDR4 onboard and can support up to 6 GB by adding one optional DDR4 non-ECC 4 GB SO-DIMM.
- 6. exFAT Access can be purchased separately in Package Center.
- 7. System snapshots include snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.
- 8. Presto File Server license can be purchased separately through the application.
- 9. Please refer to **compatibility list**_for the latest optional accessories list.
- 10. Up to 5 years of warranty are available as an additional bundle with Extended Warranty Plus or Extended Warranty, both 2-year extended warranty service add-ons available in select regions. Check availability for Extended Warranty EW201 or Extended Warranty Plus. Different terms and conditions may apply to Synology Certified Refurbished Products. For details, please check corresponding product specification pages or visit https://www.synology.com/company/legal/warranty for more information.

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