

# DiskStation DS620slim



## Mini Private Server Combining Performance and Style

Greet the unique and compact DS620slim, ready to boost your productivity at work, and its mini design allows it to blend in any workplace harmoniously. With feature-rich DiskStation Manager (DSM) at your disposal, DS620slim is an ideal file server delivering seamless file synchronization and solid backup solution while securely safeguarding your critical services. DS620slim also comes with 4K video transcoding support, perfect for streaming ultra-high definition media contents. DS620slim is backed up by Synology's 2-year limited warranty.

### Highlights

- Mini-sized yet powerful 6-bay NAS, ready to maximize your work productivity
- 6 drive bays with better RAID flexibility to configure 2.5" HDDs and SSDs
- 2GB DDR3L memory, expandable up to 6GB
- Over 220 MB/s reading and 190 MB/s writing even under encrypted data transmission<sup>1</sup>
- Dual-channel H.265/H.264 4K video transcoding on the fly<sup>2</sup>
- Advanced Btrfs file system, offering 65,000 system-wide snapshots and 1,024 snapshots per shared folder
- Anywhere access with iOS and Android™ ready mobile apps

## Ultra-compact yet Flexible in RAID Configuration

Synology DS620slim is a mini 6-bay NAS with **2.5" drive support**, yet flexible when building different RAID types with HDDs or SSDs to reach better data protection. Moreover, the storage performance can be further enhanced by taking advantage of SSD cache while still having enough drive bays for data storage.

DS620slim features a **dual-core** processor and **2GB memory**, expandable up to **6GB**. With **AES-NI** encryption, the model delivers sequential throughput performance at over **220 MB/s reading** and **190 MB/s writing**<sup>1</sup> under encrypted data transmission in **dual 1GbE Link Aggregation** environment. DS620slim comes with **dual USB 3.0 ports**, providing rapid data transfer and backup to external storage devices.

## Cross-Platform File Sharing and Data Synchronization



### Robust File Syncing & Sharing Suite

*With Synology Drive, Synology DS620slim can serve as a centralized file server, allowing files to be synced and accessed across platforms while enabling easy file sharing and management.*

Synology DS620slim supports comprehensive network protocols, ensuring a seamless file sharing experience across Windows, Mac®, and Linux® platforms. **Windows AD** and **LDAP** integration allows DS620slim to fit quickly and effortlessly into any existing network environment, without needing to create identical user accounts. With **Synology Drive**, you can sync files across Windows, macOS and Linux computer platforms, and access files on the go with mobile devices to keep information up-to-date and share files effortlessly. **Cloud Sync** keeps your Dropbox, Google™ Drive, Microsoft OneDrive, Baidu, and Box storage in sync with your personal DiskStation at home.

## Ultimate Backup Solution

DS620slim integrates various backup applications to safeguard your important data on any device with an intuitive user interface and durable storage technologies.

- Workstation/Server/Virtual Machine Backup: **Active Backup for Business** centralizes backup tasks for virtual machines, Windows PC, servers, and rsync/SMB file servers. Fast and reliable recovery options ensure running services, VMs and files instantly available when needed.
- SaaS backup: **Active Backup for Office 365/G Suite** is an on-premises backup solution for public clouds with a centralized dashboard, optimizing storage efficiency through the single instancing and block-level deduplication technology.



### Synology Active Backup Suite

*Integrated, modern, and license-free backup and instant recovery solution for business workloads in physical, virtual, and cloud environments.*

- NAS backup: **Hyper Backup** comprehensively backs up your data to a local shared folder, an external device, another Synology NAS, an rsync server, or a public cloud service to ensure data safety.
- Computer backup: **Synology Drive Client** backs up your Windows, Mac, and Linux desktop devices to safeguard important computer files. DS620slim is also compatible with Time Machine, allowing you to effortlessly back up your Mac to Synology NAS.
- Highly integrated backup solution: **Synology C2 Backup<sup>3</sup>** is a public cloud service powered by Synology. By using Hyper Backup to back up your data on Synology Cloud<sup>2</sup> (Synology C2), data safety and availability can be ensured when a disaster happens.

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## Btrfs: Next Generation Storage Efficiency

DS620slim introduces the **Btrfs file system**, bringing the most advanced storage technologies to meet the management needs of modern businesses:



### Next-Generation File System

*A modern file system designed to address obstacles often encountered in enterprise storage systems, safeguarding data integrity through metadata mirroring, self-healing and snapshot replication.*

- **Advanced snapshot technology** provides schedulable and near-instantaneous data protection of share folders and iSCSI LUNs.
- **File and folder level data restoration** brings huge conveniences and saves time for users who wish to restore only a specific file or folder.
- **Flexible Shared Folder and User Quota System** provide comprehensive quota control on all user accounts and shared folders.
- **File self-healing** allows Btrfs file system to auto-detect corrupted files with mirrored metadata, and to recover broken data using the supported RAID volumes including RAID1, 5, 6, and 10.



### 4K Ultra HD multimedia library

Real-time H.265/H.264 4K video transcoding provides hassle-free and high-quality video playback among various devices.

## 4K Ultra HD Multimedia Library

DS620slim features real-time transcoding for up to **2 channels of H.264/H.265 4K videos** at the same time, bringing more powerful support to the latest multimedia formats and contents. With **Video Station**, you can organize your personal digital video library based on media information, and watch 4K Ultra HD movies and films. **Audio Station** comes with Internet radio and supports lossless audio formats, providing music playback via DLNA and AirPlay®-compliant devices. The intuitive design of **Photo Station** allows professional photographers to effortlessly organize photos into customized categories or smart albums, and share them to social networks within a few clicks. Serving as a brand-new photo solution designed for personal and home use, **Synology Moments** promises users a modern browsing experience by offering mobile photo backup, photo sharing, image recognition, similar photo detection, auto-editing functions such as color correction and angle adjustments, and AI selection of the top photos.



### Anytime Availability

Access your DiskStation anywhere using Synology mobile apps.

## Available 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.

## Hardware Overview



1	Status indicator	2	Alert indicator	3	Power button	4	LAN indicator
5	Drive status indicator	6	Drive tray	7	FAN	8	Power port
9	1GbE RJ-45 port	10	Kensington Security Slot	11	USB 3.0 port	12	Reset button

## Technical Specifications

### Hardware

**CPU** Intel Celeron J3355 dual-core 2.0 GHz, burst up to 2.5 GHz

**Hardware encryption engine** Yes (AES-NI)

**Hardware transcoding engine**

- Supported codecs: H.264 (AVC), H.265 (HEVC), MPEG-2, VC-1
- Maximum resolution: 4K (4096 x 2160)
- Maximum frames per second (FPS): 30

**Memory** 2 GB DDR3L (expandable up to 6 GB)

**Compatible drive type** 6 x 2.5" SATA HDD/SSD (drives not included)

**Hot swappable drive** Yes

**External port** 2 x USB 3.0 port

**Size (HxWxD)** 121 x 151 x 175 mm

**Weight** 1.40 kg

**LAN** 2 x Gigabit (RJ-45)

**Wake on LAN/WAN** Yes

**Scheduled power on/off** Yes

**System fan** 80 x 80 x 20 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	<ul style="list-style-type: none"><li>Internal: Btrfs, ext4</li><li>External: Btrfs, ext4, ext3, FAT, NTFS, HFS+, exFAT<sup>4</sup></li></ul>
Supported RAID type	Synology Hybrid RAID (SHR), Basic, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
Storage management	<ul style="list-style-type: none"><li>Maximum single volume size: 108 TB</li><li>Maximum of system snapshots: 65,536<sup>5</sup></li><li>Maximum internal volumes: 64</li></ul>
SSD cache	Read-write cache support
File sharing capability	<ul style="list-style-type: none"><li>Maximum local user account: 2,048</li><li>Maximum local group: 256</li><li>Maximum shared folder: 256</li><li>Maximum concurrent SMB/NFS/AFP/FTP connection: 500</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
Virtualization	VMware vSphere® 6.5, Microsoft Hyper-V®, Citrix®, OpenStack®
Security	Firewall, encryption 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®, 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, ไทย, 日本語, 한국어, 繁體中文, 简体中文

## Packages and Applications

<b>File Server &amp; Synchronization</b>	
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: 500,000</li><li>Maximum number of concurrent connections for PC clients: 450</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
Presto File Server <sup>6</sup>	High-speed data transfer over WAN with exclusive SITA technology between Synology NAS and desktop
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
<b>iSCSI Storage &amp; Virtualization</b>	
iSCSI Manager	<ul style="list-style-type: none"><li>Maximum iSCSI target: 128</li><li>Maximum iSCSI LUN: 256</li><li>iSCSI LUN clone/snapshot support</li></ul>
Virtual Machine Manager	Deploy and run various virtual machines on Synology NAS, including Windows, Linux, or Virtual DSM
<b>Data Protection &amp; Backup Solution</b>	
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: 8
Snapshot Replication	<ul style="list-style-type: none"><li>Maximum of shared folder snapshots: 1,024</li><li>Maximum of Replication: 32</li></ul>
Synology High Availability	Reduce service downtime by setting up two identical NAS into one high-availability cluster
Active Backup for G Suite	Support G Suite My Drive and Team Drive backup and restoration

<b>Active Backup for Office 365</b>	Support Office 365 OneDrive for Business, mail, contacts, and calendar backup and restoration
<b>Active Backup for Business</b>	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
<b>Productivity &amp; Collaboration</b>	
<b>Collaboration tools</b>	Collaborate with instant message service Synology Chat, online editor Synology Office, and scheduling assistant Synology Calendar <ul style="list-style-type: none"> <li>• Chat maximum user: 1,000</li> <li>• Office maximum user: 400</li> <li>• Calendar: support CalDAV and access via mobile devices</li> </ul>
<b>Note Station</b>	Rich-text note organization and versioning, encryption, sharing, media embedding and attachments
<b>Synology MailPlus Server</b>	Secure, reliable, and private mail solution with high-availability, load balancing, security and filtering design (Includes 5 free email account licenses; additional accounts require the purchasing of additional licenses)
<b>Synology MailPlus</b>	Intuitive webmail interface for MailPlus Server, customizable mail labels, filters, and user interface
<b>Multimedia</b>	
<b>Moments</b>	Support smart AI album with facial and subject recognition, photo editing and sharing features, similar photo detection, auto-editing functions such as color correction and angle adjustments, and AI selection of the best photos. Mobile applications are available on iOS and Android devices.
<b>Other packages</b>	Video Station, Photo Station, Audio Station, iTunes® Server
<b>Surveillance</b>	
<b>Surveillance Station</b>	Maximum IP camera: 25 (total of 750 FPS at 720p, H.264) (Including two free camera licenses; additional cameras require the purchasing of additional licenses)
<b>All-in-One Server</b>	
<b>Synology Directory Server</b>	Provide a flexible and cost-effective domain controller solution
<b>Central Management System</b>	Provide a single interface to manage and monitor multiple Synology NAS
<b>VPN Server</b>	Maximum connection: 30, supported VPN protocol: PPTP, OpenVPN™, L2TP/IPSec
<b>Mail Server</b>	Supported Mail Server Protocols: POP3, SMTP, IMAP, Support LDAP/AD account
<b>Mail Station</b>	Webmail interface for Mail Server to receive emails from multiple POP3 mailboxes, customizable SMTP server
<b>Web Station</b>	Virtual host (up to 30 websites), PHP/MariaDB®, third-party applications support
<b>Other packages</b>	DNS Server, RADIUS Server, Log Center
<b>Others</b>	
<b>Storage Analyzer</b>	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
<b>Antivirus Essential</b>	Full system scan, scheduled scan, white list customization, virus definition auto update
<b>Security Advisor</b>	Malware detection/removal, user account/password, network, system-related security scan
<b>iOS/Android™ applications</b>	Synology Drive, Synology MailPlus, DS audio, DS photo, DS video, DS cam, DS file, DS finder, DS note, Moments
<b>Other packages</b>	Additional 3rd-party packages available on Package Center

## Environment and Packaging

<b>Environment safety</b>	RoHS compliant
<b>Package content</b>	<ul style="list-style-type: none"> <li>• DS620slim main unit x 1</li> <li>• Quick Installation Guide x 1</li> <li>• AC power adapter x 1</li> <li>• AC power cord x 1</li> <li>• RJ-45 LAN cable x 2</li> </ul>
<b>Optional accessories</b>	<ul style="list-style-type: none"> <li>• D3NS1866L-4G</li> <li>• VisualStation VS360HD, VS960HD</li> <li>• Surveillance Device License Pack</li> <li>• Synology MailPlus License Pack</li> <li>• Virtual DSM License Pack</li> </ul>
<b>Warranty</b>	2 years <sup>7</sup>

\*Model specifications are subject to change without notice. Please refer to [www.synology.com](http://www.synology.com) for the latest information.

1. Performance figures may vary depending on environment, usage, and configuration.

2. DS620slim can transcode 4K video to 1080p or lower. The maximum number of concurrent video transcoding channels may vary depending on the video codec, resolution, bitrate and FPS.
3. Synology C2 Backup is purchased separately when you select Synology C2 cloud backup as your destination in Hyper Backup. Synology C2 Backup provides one-time 30-day free-trial for each Synology Account.
4. exFAT Access is purchased separately in Package Center.
5. System snapshot includes snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.
6. Presto File Server License is purchased separately in Package Center.
7. 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.

## 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 125 40237 Düsseldorf  
Deutschland  
Tel: +49 211 9666 9666

#### Japan

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