

Synology®

Datasheet

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DiskStation

DS620slim

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 is backed up by Synology's 2-year limited warranty.

- 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 transmission¹
- Advanced Btrfs file system, offering 65,000 systemwide 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 writing¹** 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

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.
- 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**³ is a public cloud service powered by Synology. By using Hyper Backup to back up your data on Synology Cloud2 (Synology C2), data safety and availability can be ensured when a disaster happens.

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:

- **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.

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**, and **DS file** allow access to your Synology NAS respectively through **Photo Station**, **Audio 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.

Notes:

1. Performance figures may vary depending on environment, usage, and configuration.
2. Synology C2 Backup is purchased separately when you select Synology C2 cloud backup as your destination in Hyper Backup. Synology C2 Backup provides onetime 30-day free-trial for each Synology Account.
3. exFAT Access is purchased separately in Package Center.
4. System snapshot includes snapshots taken by iSCSI Manager, Snapshot Replication, and Virtual Machine Manager. Availability of these packages varies by model.
5. Presto File Server License is purchased separately in Package Center.
6. 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.

Hardware Overview



No.	Name	No.	Name
1.	Status indicator	7.	Fan
2.	Alert indicator	8.	Power port
3.	Power button	9.	1GbE RJ-45 port
4.	LAN indicator	10.	Kensington security slot
5.	Drive status indicator	11.	USB 3.0 port
6.	Drive trays	12.	Reset button

Technical Specifications

Hardware

CPU	
CPU Model	Intel Celeron J3355
CPU Quantity	1
CPU Core	2
CPU Architecture	64-bit
CPU Frequency	2.0 (base) / 2.5 (turbo) GHz
Hardware Encryption Engine	Yes
Memory	
System Memory	2 GB DDR3 non-ECC SODIMM
Memory Module Pre-installed	2 GB (2 GB x 1)
Total Memory Slots	2
Maximum Memory Capacity	6 GB (2 GB + 4 GB)
Notes	Please select Synology memory modules for optimum compatibility and reliability. Synology will not provide complete product warranty or technical support if non-Synology memory modules are used for memory expansion.
Storage	
Drive Bays	6
Drive Type	<ul style="list-style-type: none">• 2.5" SATA HDD• 2.5" SATA SSD
Hot Swappable Drive	Yes

External Ports

RJ-45 1GbE LAN Port	2
USB 3.2 Gen 1 Port	2

Appearance

Size (Height x Width x Depth)	121 mm x 151 mm x 175 mm
Weight	1.4 kg

Others

System Fan	80 mm x 80 mm x 20 mm x 1 pcs
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase

Temperature

Operating Temperature	5°C to 40°C (40°F to 104°F)
Storage Temperature	-20°C to 60°C (-5°F to 140°F)
Operating Humidity	8% to 80% RH
Storage Humidity	5% to 95% RH
Maximum Operating Altitude	5,000 m

General DSM Specifications

Storage Management

Maximum Single Volume Size	108 TB
Maximum Internal Volume Number	64
SSD Read/Write Cache (Determining cache size)	Yes
Supported RAID Type	Synology Hybrid RAID,Basic,JBOD,RAID 0,RAID 1,RAID 5,RAID 6,RAID 10
Notes	<ul style="list-style-type: none">Each internal volume (may consist of multiple drives) is expandable up to 108TB.Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.Usable capacity for each volume will be lower than the maximum volume size and is dependent on the filesystem and the amount of system metadata stored.

File System

Internal Drives	Btrfs,ext4
External Drives	Btrfs,ext4,ext3,FAT32,NTFS,HFS+,exFAT

File Services

File Protocol	SMB,AFP,NFS,FTP,WebDAV,Rsync
Maximum Number of SMB Connections (FSCT-Based)	5
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes

Account & Shared Folder

Maximum Local User Accounts	512
Maximum Local Groups	128
Maximum Shared Folder	128
Maximum Shared Folder Sync Tasks	4

Virtualization

VMware vSphere	ESXi 8.0 U2, ESXi 8.0 U1, ESXi 8.0, ESXi 7.0 U3, ESXi 7.0 U2, ESXi 7.0 U1, ESXi 7.0, ESXi 6.7 U3, ESXi 6.7 U2, ESXi 6.7 U1, ESXi 6.7, ESXi 6.5 U3, ESXi 6.5 U2, ESXi 6.5 U1, ESXi 6.5
Microsoft Hyper-V	Windows Server 2019, Windows Server 2016
Citrix XenServer	XenServer 7
OpenStack	Cinder

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)

General Specifications

Supported Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPS, FTP, SNMP, LDAP, CalDAV
Supported Browsers	Chrome, Firefox, Edge, Safari
Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, Русский, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, Český, ภาษาไทย, 日本語, 한국어, 繁體中文, 简体中文
Notes	For an updated list of supported browser versions, check the DSM Technical Specifications .

Packages and Applications

Synology AI Console

Centralize AI management with flexible configurations for AI model integration, user access control, data privacy, usage policies, and resource allocation

Third-Party AI Model Integration

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Synology 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 Users	5
Maximum Number of Hosted Files	100,000 (applies to files indexed or hosted by Synology Drive . For file access through other standard protocols, refer to the File Services section above)

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

Hybrid Share

Synchronize data across multiple sites for fast and efficient multi-site teamwork. Powered by Synology C2 Storage, Hybrid Share requires purchase of a monthly or annual subscription

SAN Manager

Maximum iSCSI Target Number	2
Maximum LUN	4
LUN Clone/Snapshot, Windows ODX	Yes

Virtual Machine Manager

Recommended Virtual Machine Instances	2 (Learn more)
Recommended Virtual DSM Number (Licenses required)	2 (including 1 Free License)

Hyper Backup

Supports local backup, network backup, and data backup to other servers and public clouds, including C2 Storage

Snapshot Replication

Maximum Snapshots per Shared Folder	128
Maximum of System Snapshots	1,024

Synology High Availability

Reduces service downtime by combining two identical NAS into a high-availability cluster

Synology Office

Maximum Number of Users	5
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Synology MailPlus / MailPlus Server

A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering options

Free Email Accounts	5 (Additional accounts require purchase of licenses)
Maximum Number of Users	10

Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
Suggested Maximum IP Cameras and Total FPS (H.264)	<ul style="list-style-type: none">• 1080p: 25 channels, 600 FPS• 3M: 25 channels, 350 FPS• 5M: 20 channels, 250 FPS• 4K: 12 channels, 120 FPS
Suggested Maximum IP Cameras and Total FPS (H.265)	<ul style="list-style-type: none">• 1080p: 25 channels, 750 FPS• 3M: 25 channels, 450 FPS• 5M: 25 channels, 250 FPS• 4K: 20 channels, 200 FPS

Central Management System

Provides a single interface to manage and monitor multiple Synology NAS

VPN Server

Maximum Connections	4
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Other packages

Additional 3rd-party packages are available in the Package Center

Environment & Packaging

Environment safety

RoHS Compliant

Packaging Content

- Main Unit X 1
- AC Power Adapter X 1
- AC Power Cord X 1
- RJ-45 LAN Cable X 2
- Quick Installation Guide X 1

Optional Accessories

- DDR3 non-ECC SODIMM: [D3NS1866L-4G](#)
- Enterprise Series 2.5" SATA SSD: [SAT5200 Series](#)

Warranty

2-year hardware warranty, extendable to 4 years with [Extended Warranty Plus](#)

Notes

- The warranty period starts from the purchase date as stated on your purchase receipt. ([Learn more](#))
- [Extended Warranty Plus](#) is only available in Europe and North America. [EW201/EW202](#) is only available in Asia, Africa, and Oceania. For exact availability information please visit their respective websites.

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