DiskStation DS620slim



Brand: Synology

Product Code: DS620slim

Availability: 10 **Weight:** 1.40kg

Dimensions: 175.00mm x 151.00mm x

121.00mm

Price: 36,100.00EGP

Short Description Synology 6 Bay NAS DS620slim

Description

When performance meets style

DS620slim is a mini 6-bay NAS with a stylish chassis design, perfectly blending in modern workplaces or apartments. Supporting near-instantaneous snapshot technology,

DS620slim is an all-around file management solution that fulfills professionals' needs of advanced data protection.

CPU

Dual-core 2GHz burst up to 2.5GHz

Memory

DDR3L 2GB, up to 6GB

Encryption Performance

Over 226 MB/s reading and 198 MB/s writing

Remain classic while shrinking footprint

The mini 6-bay design keeps DS620slim classic and saves deployment space. With six 2.5" drive support, DS620slim is able to boost performance by installing SSDs.

• Compact Design

Mini design with the dimensions of 121 x 151 x 175 mm, flexible to fit in anywhere

• RAID Flexibility

Flexible in a variety of RAID configurations to realize maximum 30TB raw capacity or better data protection with RAID 5/6/10

• SSD Cache Support

Further enhance storage performance with SSD read/write cache while still having abundant drive bays for data storage

Btrfs: Next generation storage efficiency

The Btrfs file system introduces cutting-edge storage technologies and optimized snapshots to prevent data corruption and reduce maintenance overhead. While ensuring high-level data integrity, it also offers flexible, efficient data protection and recovery tools.



- Flexible Shared Folder/User Quota System provides comprehensive quota control on all user accounts and shared folders
 - Snapshot Replication provides schedulable and storage capacity-saving data protection with 1,024 shared folder backups and 65,000 system-wide snapshots
 - File or folder level data restoration makes data recovery fast and flexible
 - Automatic file self-healing detects and recovers corrupted files without user intervention

Ultimate file management and sharing

File Station is a web-based, fast and secure management tool built to allow easy, dragand-drop operations without requiring any complex setup on Mac or PC. Advanced search and filtering tools allow for easy organization and file sharing. For complete compatibility, DS620slim supports the following protocols: AFP, FTP, iSCSI, NFS, SMB, and WebDAV.



Access and sync your files seamlessly

Synology Drive provides a built-in universal portal to access your data anytime and
anywhere, and synchronize all your files across platforms, including Windows, macOS,
Linux, Android, and iOS.

Sync files on demand: Save the storage space and network bandwidth of your PC.

Go back in time: Easily retrieve previous versions of your shared files.

Back up your data: Protect your files with scheduled backups or in real-time.

Stream content to your TV

Turn your Synology NAS into a home media hub and stream your digital contents to computers, mobile devices, Samsung TV, Apple TV, Google Chromecast, and DLNA devices.

Software

DSM Specifications

Storage Management

Maximum Single Volume

108 TB

Size

Maximum Internal Volume 64

Number

SSD Read/Write

Cache (Determining cache

size)

SSD TRIM

Supported RAID Type

• Synology Hybrid

RAID

• Basic

• JBOD

• RAID 0

• RAID 1

• RAID 5

• RAID 6

• RAID 10

• Basic to RAID 1

• Basic to RAID 5

RAID Migration

Volume	Expansion	with
Larger F	HDDs	

Volume Expansion by

Adding a HDD

- RAID 1 to RAID 5
- RAID 5 to RAID 6
- Synology Hybrid RAID
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- Synology Hybrid RAID
- JBOD
- RAID 5
- RAID 6

Global Hot Spare Supported RAID Type

- Synology Hybrid RAID
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- 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.
- Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.

- **Internal Drives**
- **External Drives**

• Btrfs

- ext4
- Btrfs
- ext4
- ext3
- FAT
- NTFS

Notes

File System

• HFS+

• exFAT

Notes exFAT Access can be

installed for free from

Package Center in DSM 7.0.

In DSM 6.2 or earlier versions, exFAT Access needs to be purchased in

Package Center.

File Protocol

• SMB

• AFP

• NFS

• FTP

• WebDAV

• Rsync

Maximum Concurrent 500

SMB/AFP/FTP Connections

Maximum Concurrent 1,500

SMB/AFP/FTP Connections

(with RAM expansion)

Windows Access Control

List (ACL) Integration

NFS Kerberos Authentication

Notes

• Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of supported RAM.

• The testing standard was based on the maximum number of concurrent connections supported by this model. During the testing, 25% of the connections were used to transfer files concurrently. The transfer process guaranteed that the

File Services

connections were not interrupted; the minimum transfer speed was not guaranteed.

Account & Shared Folder	Maximum Local User	2.048
rice out to blime a rough	Maximum Local Osci	2,010

Accounts

Maximum Local Groups 256
Maximum Shared Folder 256
Maximum Shared Folder 8

Sync Tasks

Hybrid Share Maximum Hybrid Share 10

Folders

Hyper Backup Folder and Package Backup

Entire System Backup

Notes Full-system backup requires

DSM 7.2 or later.

High Availability Synology High Availability

Log Center Syslog Events per Second 800 Virtualization VMware ESXi 6.5 and VAAI

> Windows Server 2016 Windows Server 2019

Citrix Ready OpenStack

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, ??????, Polski, Magyar,

Português do Brasil,

Português Europeu, Türkçe, ?eský, ???????, ???, ???,

????, ????

Notes For an updated list of

supported browser versions, check the <u>DSM Technical</u>

Specifications.

Add-on Packages view the complete package list

Central Management System

Synology Chat Suggested Users 1,000

Notes Models with expandable

memory are tested with their

maximum supported

memory.

Download Station Maximum Concurrent 80

Download Tasks

SAN Manager Maximum iSCSI Target 128

Number

Maximum LUN 256

LUN Clone/Snapshot,

Windows ODX

Notes iSCSI Manager has been

renamed to SAN Manager in

DSM 7.0.

Synology MailPlus /

MailPlus Server

Free Email Accounts

5 (Additional accounts

require purchase of licenses)

Suggested Users 250

Maximum Server 181,000 emails per day,

Performance approx. 5.5GB

Notes

• Suggested users is derived from testing

in an environment with 20% heavy users (each with 20,000 prepopulated emails and receiving 240 emails per day) and 80% light users (each receiving an average of 20 emails per

of 20 emails per day). <u>Learn more</u>

 Models with more than 4 bays were installed with two SSDs for SSD cache.

 Models with
expandable memory
are tested with their
maximum supported
memory.

- The performance of the mail system will slightly decrease in high-availability mode due to data synchronization between the two servers.
- Functions that were enabled in all of the tests above: antispam, anti-virus, DNSBL, greylist, content scan, full-text search (English only).

<u>Med</u>	<u>ia Server</u>
Sync	ology Photos

DLNA Compliance Facial Recognition **Object Recognition**

Notes

Object recognition requires an upgrade of memory capacity to a minimum of 4 GB.

Snapshot Replication

Maximum Snapshots per Shared Folder Maximum of System Snapshots

65,536

1,024

Surveillance Station

Suggested Maximum IP Cameras and Total FPS

(H.264)

Default Licenses

2 (Additional cameras require purchase of licenses)

> • 720p: 25 channels, **750 FPS**

• 1080p: 25 channels, 600 FPS

• 3M: 25 channels, 350 **FPS**

• 5M: 20 channels, 250 **FPS**

• 4K: 12 channels, 120

Suggested Maximum IP Cameras and Total FPS (H.265)

Notes

FPS

- 720p: 25 channels, 750 FPS
- 1080p: 25 channels, 750 FPS
- 3M: 25 channels, 450 FPS
- 5M: 25 channels, 250 FPS
- 4K: 20 channels, 200 FPS
- Performance figures are obtained from testing conducted with the device fully populated with drives, with their default memory configuration, and under a continuous recording setup. Actual system capabilities may vary based on configuration, drive performance, enabled features, and the presence of additional workloads.
- Use <u>NVR Selector</u> to quickly find a suitable model based on your requirements.
- The maximum number of camera stream outputs is 2 times the suggested maximum number of IP cameras.

450 (the number of connections that can be maintained when the

Synology Drive

Recommended Number of Concurrent Sync Clients

Recommended Number of Hosted Files

recommended number of hosted files was reached) 5,000,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)

Notes

- Exceeding the recommended numbers above will not block application operations, but may result in longer response time.
- Utilizing SSD cache can significantly improve performance.
- Models with expandable memory are tested with their maximum supported memory.
- Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

Synology Office

Suggested Users Notes 1,500

• Suggested users is derived from testing in an environment with 60% idle users (each logging in and viewing documents) and 40% active users (each executing random actions at intervals of 20 to 40 seconds) operating within documents,

each document having 30 users. Learn more

- Models with expandable memory are tested with their maximum supported memory.
- Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

<u>Virtual Machine Manager</u> Recommended Virtual 2 (<u>Learn more</u>)

Machine Instances

Recommended Virtual DSM 2 (including 1 Free License)

Number (Licenses required)

Notes The specifications vary

depending on system

configuration and memory

size.

VPN Server Maximum Connections 40

Specification

Specification	
NAS	
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	YES
Engine	
Memory	2 GB DDR3 non-ECC SODIMM
Drive Bays	6
Compatible Drive Type	2.5
Hot Swappable Drive	YES
RJ-45 1GbE LAN Port	2
USB 3.2 Gen 1 Port	2
System Fan	80 mm x 80 mm x 1 pcs
Power Supply Unit /	65 watts 100V to 240V AC 50/60 Hz, Single Phase
Adapter	
Total Memory Slots	2

Maximum Memory	6 GB (2 GB + 4 GB)
Capacity	

Product Gallery





