

## DiskStation DS223



**Brand:** Synology

**Product Code:** DS223

**Availability:** 10

**Weight:** 1.28kg

**Dimensions:** 165.00mm x 108.00mm x  
232.70mm

**Price:** \$23,800.00

### Short Description

Synology 2 Bay NAS DS223

### Description

#### Get your data under control

Consolidate files from various sources into your own private cloud. The DS223 keeps the process simple and offers everything you need to keep your data safe and organized.



#### Secure private cloud

Enable anywhere, anytime access to up to 40 TB of data



#### Simple backup hub

Create spare copies of your documents and media for easy recovery.



## **Efficient operation**

Keep energy consumption low with just 17.3 W during operation.

## **Private cloud made easy**

Import data from PCs, Macs, and other external storage devices at a 14% faster rate and keep all your devices in sync for smoother file management.

## **Access from any device**

Get to your files from PC, Mac, Linux, Chromebook, Android, iOS, or any device equipped with a browser. Keep your data private or easily share it using secure links.



## Save storage space

Enable on-demand mode to download files onto your Windows PC or Mac only when you access them. Pin the most important ones or the ones you access more frequently for convenient offline accessibility.



## Integrate with the cloud

Sync files between your private cloud and public cloud services, including Google Drive, Dropbox, and Microsoft OneDrive. Retain local copies of your cloud data for centralized management and data ownership.



## **Sync across locations**

Say goodbye to long waits while downloading or uploading files. Continuously synchronize content between two Synology devices to enable fast local access at any location, no matter the amount of data.



## **Your data in safe hands with Btrfs<sup>1</sup>**

The advanced Btrfs file system helps safeguard data against corruption through file self-healing and allows for the reversal of unintentional or malicious changes through fast snapshot technology.



## **Versatile NAS for the modern home**

Configure your DS223 to best suit your needs thanks to a host of complete solutions designed for every scenario.

## Photo management

Store and organize photos, albums, and other media with smart and intuitive features.

Leverage privacy-focused options to share media securely with friends, family, or colleagues.

30% faster photo indexing



## **Data protection**

### **Automated media backup**

Automatically upload photos and videos taken on your mobile device to your private cloud with Synology Photos or Synology Drive.

### **Protection against cyberattacks**

Leverage Synology Drive to protect data from ransomware attacks or accidental deletion with real-time or scheduled backup of your PC folders.



Video surveillance

## Wide compatibility

Choose from over 8,300 IP cameras or ONVIF devices compatible with Synology Surveillance Station to keep your premises secure.<sup>[1](#)</sup>

## Universal access



Watch live camera streams through web browsers, desktop clients, or mobile apps. Get notified of events and take immediate action.



## **Protect your data platform**

Add an extra layer of protection to your files with one of the built-in, license-free solutions available to back up your DS223.

## **Flexible backups**

Back up your entire NAS, including system settings and applications, or select specific folders. Secure all backup data to multiple destinations.

## **Near-continuous protection**

Take NAS protection to the next level by creating point-in-time copies of shared folders that can be replicated elsewhere and rapidly restored.



## Software

### DSM Specifications

<a href="#">Storage Management</a>	Maximum Single Volume Size	108 TB
	Maximum Internal Volume Number	64
	SSD TRIM	
	Supported RAID Type	<ul style="list-style-type: none"><li>• Synology Hybrid RAID</li><li>• Basic</li><li>• JBOD</li><li>• RAID 0</li><li>• RAID 1</li></ul>
	RAID Migration	<ul style="list-style-type: none"><li>• Basic to RAID 1</li></ul>
	Volume Expansion with Larger HDDs	<ul style="list-style-type: none"><li>• Synology Hybrid RAID</li><li>• RAID 1</li></ul>
	Volume Expansion by Adding a HDD	<ul style="list-style-type: none"><li>• Synology Hybrid RAID</li></ul>
	Notes	<ul style="list-style-type: none"><li>• 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.</li><li>• Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.</li></ul>
<a href="#">File System</a>	Internal Drives	<ul style="list-style-type: none"><li>• Btrfs</li><li>• ext4</li></ul>
	External Drives	<ul style="list-style-type: none"><li>• Btrfs</li><li>• ext4</li><li>• ext3</li><li>• FAT</li><li>• NTFS</li><li>• HFS+</li><li>• exFAT</li></ul>
<a href="#">File Services</a>	File Protocol	<ul style="list-style-type: none"><li>• SMB</li><li>• AFP</li><li>• NFS</li><li>• FTP</li></ul>

- WebDAV
- Rsync

Maximum Concurrent 200

SMB/AFP/FTP

Connections

Windows Access

Control List (ACL)

Integration

NFS Kerberos

Authentication

Notes

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

#### [Account & Shared Folder](#)

Maximum Local User 1,024

Accounts

Maximum Local 256

Groups

Maximum Shared 256

Folder

Maximum Shared 4

Folder Sync Tasks

#### [Hybrid Share](#)

Hybrid Share Folder Number 5

#### [Hyper Backup](#)

Data & Folder Backup

#### [Log Center](#)

Syslog Events per Second 400

#### [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 [DSM Technical Specifications](#).

Add-on Packages [view the complete package list](#)

[Synology Chat](#)

Download Station      Maximum Concurrent 80  
Download Tasks

[SAN Manager](#)      Maximum iSCSI      10  
Target Number

Maximum LUN      10

LUN Clone/Snapshot,

Windows ODX

[Media Server](#)

DLNA Compliance

[Synology Photos](#)

Facial Recognition

[Snapshot Replication](#)      Maximum Snapshots      256  
per Shared Folder

Maximum of System      4,096

Snapshots

[Surveillance Station](#)      Default Licenses      2 [\(Additional cameras require purchase of licenses\)](#)

Suggested Maximum      • 720p: 20 channels, 600 FPS  
IP Cameras and Total      • 1080p: 20 channels, 460 FPS  
FPS (H.264)      • 3M: 20 channels, 300 FPS

• 5M: 15 channels, 150 FPS

• 4K: 11 channels, 110 FPS

Suggested Maximum      • 720p: 20 channels, 600 FPS  
IP Cameras and Total      • 1080p: 20 channels, 500 FPS  
FPS (H.265)      • 3M: 20 channels, 400 FPS

• 5M: 20 channels, 350 FPS

• 4K: 20 channels, 200 FPS

Notes

• 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 [NVR Selector](#) 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.

<a href="#">Synology Drive</a>	Recommended Number of Concurrent Sync Clients	200 (the number of connections that can be maintained when the recommended number of hosted files was reached)
	Recommended Number of Hosted Files	500,000 (applies to files indexed or hosted by <a href="#">Synology Drive</a> . For file access through other standard protocols, refer to the File Services section above)
	Notes	<ul style="list-style-type: none"><li>• Exceeding the recommended numbers above will not block application operations, but may result in longer response time.</li><li>• Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.</li></ul>
<a href="#">Synology Office</a>	Suggested Maximum Users	500
	Suggested Concurrent Users	200
	Notes	<ul style="list-style-type: none"><li>• Multiple files were opened for testing and each file was edited by 30 users simultaneously.</li><li>• Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM</li></ul>
<a href="#">VPN Server</a>	Maximum Connections	20

## Specification

NAS	
CPU Model	Realtek RTD1619B
CPU Quantity	1

CPU Core	4
CPU Architecture	64-bit
CPU Frequency	1.7 GHz
Hardware Encryption Engine	YES
Memory	2 GB DDR4 non-ECC
Drive Bays	2
Compatible Drive Type	3.5 / 2.5 HDD - SSD
Hot Swappable Drive	YES
RJ-45 1GbE LAN Port	1
USB 3.2 Gen 1 Port	3
System Fan	92 mm x 92 mm x 1 pcs
Power Supply Unit / Adapter	60 watts 100V to 240V AC 50/60 Hz, Single Phase

**Product Gallery**

