Synology®

Datasheet

DiskStation

DS223

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DiskStation

DS223



Data Management and Sharing Platform for Home and SOHO

Designed with both leisure and work in mind, the entry-level 2-bay DS223 has all the tools you need to create an intuitive and secure platform to centralize, organize, and share your data. Leverage the license-free, built-in solutions available in Synology DiskStation Manager (DSM) to create your own private cloud, access files from any device, and work efficiently on business projects with clients and collaborators.

- **Centralized Data Storage**
  Consolidate up to 36 TB of data[1] with 100% data ownership and multi-platform access
- **Easy Sharing & Syncing**
  Share files and media in a breeze, and keep clients and collaborators on the same page
- **Simple Data Protection**
  Back up your media library or business document repository to a variety of destinations
- **Intelligent Surveillance**
  Protect what matters by keeping an eye on your home with flexible monitoring tools

Storage Hub With Anytime, Anywhere Access

Move away from data scattered across devices. Your Synology NAS can serve as a go-to platform to securely and conveniently store any type of data with comprehensive and intuitive file access and management tools.

- Enable QuickConnect to access your NAS directly from web browsers without configuring complex port forwarding rules
- Browse and manage your files from any browser with **Synology Drive**, or access familiarly from the local network using common network protocols
- Keep your shots and clips organized using **Synology Photos**' smart sorting functions
- Deploy your Synology NAS as edge storage by fitting it easily into the existing network infrastructure thanks to Windows AD and LDAP integration

Collaboration and Synchronization Platform

Make it easy to share documents and digital memories with family and friends, and boost productivity while working in a team or with your clients.

- Build a private data cloud for easy file management and sharing across all platforms, and keep the content of two Synology systems in sync with **Synology Drive**
- Synchronize data from and to popular cloud storage platforms with **Synology Cloud Sync**
- Share media with family, friends, or collaborators through the privacy-focused sharing options in **Synology Photos**

Flexible Data Protection Options

Synology DSM comes equipped with a complete host of backup solutions available at no extra cost.

- Leverage **Synology Drive** to protect data from ransomware attacks or accidental deletion with real-time or scheduled backups of your PC folders
- Safeguard photos and videos taken on mobile devices by automatically creating remote copies with **Synology Drive** or **Synology Photos**
- Efficiently back up your entire Synology NAS or select folders to multiple destinations using **Hyper Backup**
- Store backups on C2 Storage,[2] a dedicated and secure cloud destination powered by Synology C2

- Take NAS protection to the next level with Snapshot Replication by creating point-in-time copies of shared folders that can be replicated to other Synology systems and rapidly restored

Private Video Surveillance

Synology Surveillance Station transforms any Synology system into a powerful network video recorder (NVR).

- 8,700+ supported camera models
- ONVIF support for a broader selection of cameras
- Private, subscription-free storage of recordings
- Access through web browsers, desktop clients, and mobile apps
- Event-based rules to trigger specific actions
- Email, SMS, and push notification options
- Dual recording to the cloud with **C2 Surveillance** for online access and convenient sharing[3]

Notes:

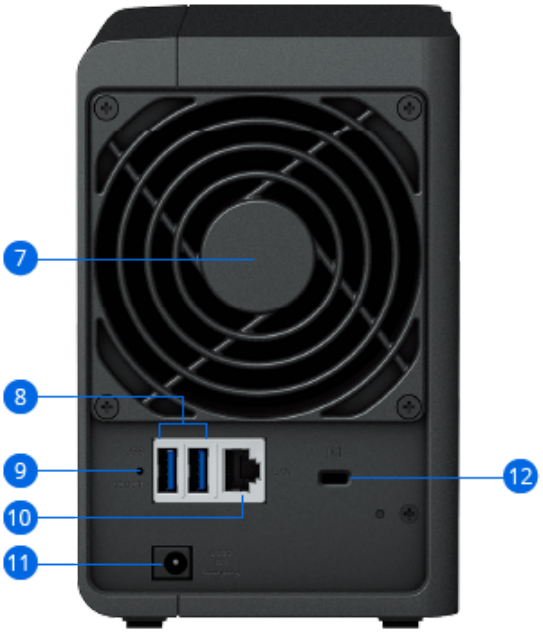
1. Raw capacity. Usable storage capacity may vary depending on drives used and RAID configuration.
2. C2 Storage for Hyper Backup requires purchase of an eligible annual or monthly subscription. A free trial is available for each newly registered device.
3. C2 Surveillance requires purchase of an eligible annual subscription. Each additional channel requires a separate subscription. A free trial is available.

Hardware Overview

Front



Rear



No.	Name	No.	Name
1.	Status indicator	7.	Fan
2.	LAN indicator	8.	USB 3.2 Gen 1 Ports
3.	Drive Status Indicators	9.	Reset Button
4.	USB 3.2 Gen 1 port	10.	1GbE RJ-45 Port
5.	Copy Button	11.	Power port
6.	Power Button	12.	Kensington security slot

Technical Specifications

Hardware

CPU	
CPU Model	Realtek RTD1619B
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	1.7 GHz
Hardware Encryption Engine	Yes

Memory	
System Memory	2 GB DDR4 non-ECC
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	2
Drive Type	• 3.5" SATA HDD • 2.5" SATA SSD
Hot Swappable Drive	Yes

External Ports	
RJ-45 1GbE LAN Port	1
USB 3.2 Gen 1 Port	3

Appearance	
Size (Height x Width x Depth)	165 mm x 108 mm x 232.7 mm
Weight	1.28 kg

Others	
System Fan	92 mm x 92 mm x 25 mm x 1 pcs
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase

Temperature	
Operating Temperature	0°C to 40°C (32°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
Supported RAID Type	Synology Hybrid RAID,Basic,JBOD,RAID 0,RAID 1
Notes	• 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	256
Maximum Local Groups	64
Maximum Shared Folder	64
Maximum Shared Folder Sync Tasks	2

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 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

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

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 Office

Maximum Number of Users	5

Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
Suggested Maximum IP Cameras and Total FPS (H.264)	• 1080p: 20 channels, 460 FPS • 3M: 20 channels, 300 FPS • 5M: 15 channels, 150 FPS • 4K: 11 channels, 110 FPS
Suggested Maximum IP Cameras and Total FPS (H.265)	• 1080p: 20 channels, 500 FPS • 3M: 20 channels, 400 FPS • 5M: 20 channels, 350 FPS • 4K: 20 channels, 200 FPS

VPN Server

Maximum Connections	2

Other packages

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

Environment & Packaging

Environment safety

RoHS Compliant

Packaging Content

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

Optional Accessories

- Enterprise Series 3.5" SATA HDD: HAT5300 Series
- Plus Series 3.5" SATA HDD: HAT3300 Series
- 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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