Datasheet

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DiskStation

DS223j

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All-in-one file management and sharing hub

The DS223j is an efficient one-stop solution for all your data storage and sharing needs. With two bays of storage and Synology DiskStation Manager (DSM) on board, the DS223j allows you to create a private cloud to protect your files, share your data across several devices, store security footage with intelligent video surveillance tools, and more.

- **Centralized Data Storage**
  Consolidate all your data with complete data ownership and multi-platform access

- **Next-Generation File System**
  Leverage file self-healing, lightning-fast data snapshots, and rapid data cloning[1]

- **Secure Sharing and Syncing**
  Safely access and share files and media from anywhere, and keep clients, colleagues and collaborators on the same page

- **Simple Data Protection**
  Back up your media library or document repository to a variety of destinations

- **Versatile Camera Surveillance**
  Protect your premises with flexible monitoring tools

Access Your Files Anytime, Anywhere

Organize 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 **access and management tools**.

- Enable QuickConnect to access your NAS securely from anywhere without configuring complex port forwarding rules

- Browse and manage your files and media from any browser with **Synology Drive**, or access data through your default file browser using common network protocols

- Keep your photos and videos organized using **Synology Photos**' smart sorting functions

- Deploy your Synology NAS as edge storage and fit it easily into existing infrastructure thanks to Windows AD and LDAP integration

Collaboration and Synchronization Platform

Easily share documents with colleagues 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 data in sync between two Synology systems with **Synology Drive**

- Synchronize data to and from popular cloud storage platforms with **Synology Cloud Sync**

- Share media with colleagues or collaborators through the privacy-focused sharing options in **Synology Photos**

Flexible Data Protection Options

Synology DSM comes with a host of backup and data protection solutions

available at no extra cost.

- Leverage **Synology Drive** to protect data from ransomware attacks or accidental deletion with real-time or scheduled backup 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 off-site on **C2 Storage**,[2] a dedicated and secure cloud destination powered by Synology C2

- Create point-in-time snapshots with **Snapshot Replication**, allowing users to reverse any unplanned or unwanted changes[2]
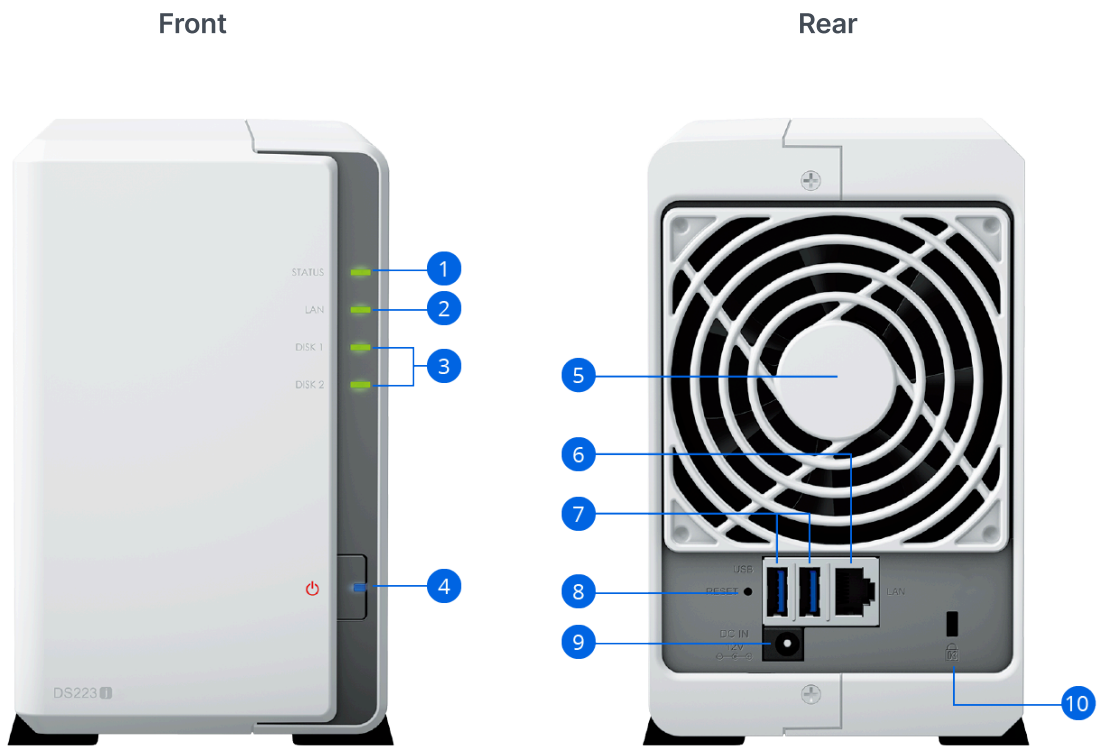
Versatile and Private Video Surveillance

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

- Simultaneous recording to the cloud with **C2 Backup for Surveillance** for an extra layer of data protection and more convenient sharing[11]

Notes:

1. Feature available from DSM 7.2.

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.

4. System snapshots include snapshots taken by SAN Manager and Snapshot Replication.

5. Surveillance Station includes two free licenses. Connecting more cameras and devices requires additional licenses. Learn more

Hardware Overview

Front

Rear

No.	Name	No.	Name
1.	Status indicator	6.	1GbE RJ-45 port
2.	LAN Indicator	7.	USB 3.2 Gen 1 port
3.	Drive Status Indicators	8.	Reset button
4.	Power Button and Indicator	9.	Power port
5.	Fan	10.	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	1 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 (with optional 2.5" Disk Holder)

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

Appearance

Size (Height x Width x Depth)	165 mm x 100 mm x 225.5 mm
Weight	0.88 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: 12 channels, 360 FPS 3M: 12 channels, 300 FPS 5M: 12 channels, 150 FPS 4K: 11 channels, 110 FPS
Suggested Maximum IP Cameras and Total FPS (H.265)	1080p: 12 channels, 360 FPS 3M: 12 channels, 360 FPS 5M: 12 channels, 350 FPS 4K: 12 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
• Plus Series 3.5" SATA HDD: HAT3300 Series • Disk Holder: Type C

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.