Product Specifications

—

DS225+

Hardware Specs

CPU

CPU Model	Intel Celeron J4125
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
CPU Frequency	2.0 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	v

Memory

System Memory	2 GB DDR4 non-ECC
Total Memory Slots	1
Maximum Memory Capacity	6 GB (2 GB + 4 GB)
Notes	• Synology reserves the right to replace memory modules with the same or higher frequency based on supplier's product life cycle status. Rest assured that the compatibility and stability have been strictly verified with the same benchmark to ensure identical performance. • 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 (See all supported drives)	• 3.5" SATA HDD • 2.5" SATA SSD
Hot Swappable Drive*	v
Notes	Compatible drives are mandatory. Please consult our compatibility list before purchasing hard drives. For more details, please refer to this article.

External Ports

RJ-45 1GbE LAN Port	1
RJ-45 2.5GbE LAN Port	1
USB 3.2 Gen 1 Port	2
USB Copy	v
Notes	This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes.

Appearance

Size (Height x Width x Depth)	165 mm x 108 mm x 232.2 mm
Weight	1.3 kg

Others

System Fan	92 mm x 92 mm x 1 pcs
Fan Speed Mode	• Full-Speed Mode • Cool Mode • Quiet Mode
Brightness Adjustable Front LED Indicators	v
Power Recovery	v
Noise Level*	19.6 dB(A)
Scheduled Power On / Off	v
Wake on LAN / WAN	v
Power Supply Unit / Adapter	60 watts
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption*	16.98 watts (Access) 6.08 watts (HDD Hibernation)
British Thermal Unit	57.90 BTU/hr (Access) 20.73 BTU/hr (HDD Hibernation)
Notes	• For more information on how power consumption is measured, refer to this article. • Noise testing was conducted with the Synology system fully installed with Synology SATA HDDs and in an idle state. Two G.R.A.S. Type 40AE microphones are placed at a 1 m distance from the front and rear of the device. Background noise: 16.49-17.51 dB(A); Temperature: 24.25-25.75°C; Humidity: 58.2-61.8%

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

Certification

- FCC
- CE
- BSMI
- VCCI
- RCM
- UKCA
- EAC
- CCC
- KC
- BIS

Warranty

3-year hardware warranty, extendable to 5 years with EW201 or 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.

Environment

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 2

Optional Accessories

- DDR4 non-ECC SODIMM: D4NS01-4G
- Enterprise Series 3.5" SATA HDD: HAT5300 Series
- Plus Series 3.5" SATA HDD: HAT3300 Series
- Enterprise Series 2.5" SATA SSD: SAT5200 Series

Software Specs

DSM Specifications

Storage Management	
Maximum Single Volume Size	108 TB
Maximum Internal Volume Number	32
SSD TRIM	v
Supported RAID Type	• Synology Hybrid RAID • Basic • JBOD • RAID 0 • RAID 1
RAID Migration	• Basic to RAID 1
Volume Expansion with Larger HDDs	• Synology Hybrid RAID • RAID 1
Notes	• 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	v
NFS Kerberos Authentication	v
Notes	- Connection value of this model is tested with Synology SATA HDD fully populated and all onboard network ports - Models with expandable memory are tested with the maximum supported quantity installed. - SMB performance was evaluated using Microsoft File Server Capacity Tool (FSCT) version 1.3, with the following configuration: - Test workload: HomeFolder scenario provided by the FSCT tool - Test duration: 600 seconds - Domain controller & FSCT controller: Windows Server 2022 - FSCT clients: 8 × Windows 10 machines - SMB feature: Directory leasing enabled

Account & Shared Folder

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

Hybrid Share

Maximum Hybrid Share Folders	10

Hyper Backup

Folder and Package Backup	v
Entire System Backup	v

High Availability

Synology High Availability	v

Log Center

Syslog Events per Second	800

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.

Add-on Packages view the complete package list

Central Management System

v

Synology AI Console

Third-Party AI Model Integration	v

Synology Chat

Maximum Number of Users	100
Notes	- Measured with simulated users, each with an average record of 20,000 messages, emojis, or stickers. The required server response time is below ten seconds. - Models with expandable memory are tested with the maximum supported quantity installed.

Download Station	
Maximum Concurrent Download Tasks	80

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

Synology MailPlus / MailPlus Server	
Free Email Accounts	5 (Additional accounts require purchase of licenses)
Maximum Number of Users	20
Notes	- The suggested maximum number of users is based on the following workload: 20% of users with a 20,000 item mailbox randomly performing actions and receiving 240 emails per day, and 80% of users receiving 20 emails per day. Learn more - Models with SSD support are tested with a single SSD volume. - Models with expandable memory are tested with the maximum supported quantity installed. Learn more about memory requirements. - Operating in high-availability mode will incur additional overhead. - Features enabled during evaluation: anti-spam, anti-virus, DNSBL, greylist, content scanning, and full-text search (English).

Media Server

DLNA Compliance	v

Synology Photos

Facial Recognition	v
Object Recognition	v
Notes	Object recognition requires an upgrade of memory capacity to a minimum of 4 GB.

Snapshot Replication

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

Surveillance Station

Default Licenses	2 (Additional cameras require purchase of licenses)
Suggested Maximum IP Cameras and Total FPS (H.264)	• 1080p: 25 channels, 750 FPS • 3M: 25 channels, 350 FPS • 5M: 25 channels, 280 FPS • 4K: 17 channels, 170 FPS
Suggested Maximum IP Cameras and Total FPS (H.265)	• 1080p: 25 channels, 750 FPS • 3M: 25 channels, 600 FPS • 5M: 25 channels, 480 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 number of streams that can be viewed simultaneously is **twice** the suggested maximum number of cameras. For example, if the suggested maximum number of cameras for a model is 10 under H.264, 1080p, the model can support up to 20 streams of the same specification at the same time.

Synology Drive

Maximum Number of Users	10
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)
Notes	• The suggested maximum number of users is based on the following workload: 20% of users randomly perform file operations (upload, download, move, and delete), and 80% of users are logged in but idle. Learn more • Models with SSD support are tested with a single SSD volume. • Models with expandable memory are tested with the maximum supported quantity installed. • Exceeding the recommended numbers above will not block application operations, but may result in longer response time. • Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

Synology Office

Maximum Number of Users	10
Notes	• The suggested maximum number of users is based on the following workload: 20% of users are executing random actions at an average of 30-second intervals, and 80% of users are logged in and viewing a file. Learn more • Models with SSD support are tested with a single SSD volume. • Models with expandable memory are tested with the maximum supported quantity installed. • Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

Virtual Machine Manager

Recommended Virtual Machine Instances	2 (Learn more)
Recommended Virtual DSM Number (Licenses required)	2 (including 1 Free License)
Notes	The specifications vary depending on system configuration and memory size.

VPN Server

Maximum Connections	4