Product Specifications

# DS723+

Product Specifications

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# Hardware Specs

## CPU

| | |
|---|---|
| CPU Model | AMD Ryzen R1600 |
| CPU Quantity | 1 |
| CPU Architecture | 64-bit |
| CPU Frequency | 2-core 2.6 (base) / 3.1 (turbo) GHz |
| Hardware Encryption Engine (AES-NI) | v |

## Memory

| | |
|---|---|
| System Memory | 2 GB DDR4 ECC |
| Memory Module Pre-installed | 2 GB (2 GB x 1) |
| Total Memory Slots | 2 |
| Maximum Memory Capacity | 32 GB (16 GB x 2) |
| Notes | <ul><li>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.</li><li>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.</li><li>For more information about the recommended memory configurations, please check the Hardware Installation Guide of your Synology product.</li></ul> |

## Storage

| | |
|---|---|
| Drive Bays | 2 |

| | |
|---|---|
| Maximum Drive Bays with Expansion Unit | 7 (DX517 x 1) |
| M.2 Drive Slots | 2 (NVMe) |
| Compatible Drive Type* (See all supported drives) | <ul><li>3.5" SATA HDD</li><li>2.5" SATA SSD</li><li>M.2 2280 NVMe SSD</li></ul> |
| Hot Swappable Drive* | v |
| Notes | <ul><li>The hot swappable drive feature is not supported by M.2 SSD slots.</li><li>"Compatible drive type" indicates drives that have been tested to be compatible with Synology products. This term does not indicate the maximum connection speed of each drive bay.</li></ul> |

## External Ports

| | |
|---|---|
| RJ-45 1GbE LAN Port* | 2 (with Link Aggregation / Failover support) |
| USB 3.2 Gen 1 Port* | 1 |
| eSATA Port | 1 |
| Notes | <ul><li>This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes.</li><li>The USB 3.0 standard was renamed to USB 3.2 Gen 1 by the USB Implementers Forum (USB-IF) in 2019.</li></ul> |

## PCIe

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|---|---|
| PCIe Expansion | 1 x Gen3 x2 network upgrade slot |

## File System

| | |
|---|---|
| Internal Drives | <ul><li>Btrfs</li><li>EXT4</li></ul> |

| External Drives | <ul><li>Btrfs</li><li>EXT4</li><li>EXT3</li><li>FAT</li><li>NTFS</li><li>HFS+</li><li>exFAT</li></ul> |
|---|---|

## Appearance

| | |
|---|---|
| Size (Height x Width x Depth) | 166 mm x 106 mm x 223 mm |
| Weight | 1.51 kg |

## Others

| | |
|---|---|
| System Fan | 92 mm x 92 mm x 1 pcs |
| Fan Speed Mode | <ul><li>Full-Speed Mode</li><li>Cool Mode</li><li>Quiet Mode</li></ul> |
| Brightness Adjustable Front LED Indicators | v |
| Power Recovery | v |
| Noise Level* | 20.7 dB(A) |
| Scheduled Power On / Off | v |
| Wake on LAN / WAN | v |
| Power Supply Unit / Adapter | 65 W |
| Redundant Power Supply | – |
| AC Input Power Voltage | 100V to 240V AC |
| Power Frequency | 50/60 Hz, Single Phase |
| Power Consumption | 21.07 W (Access)<br>8.62 W (HDD Hibernation) |
| British Thermal Unit | 71.85 BTU/hr (Access)<br>29.39 BTU/hr (HDD Hibernation) |

| | |
|---|---|
| Notes | <ul><li>For more information on how power consumption is measured, refer to this article.</li><li>Noise testing was conducted with the Synology system fully installed with Synology SATA HDDs and in an idle stae. 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%</li></ul> |

## Temperature

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|---|---|
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -20°C to 60°C (-5°F to 140°F) |
| Relative Humidity | 5% to 95% RH |

## Certification

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

## Warranty

3-year hardware warranty, extendable to 5 years with EW201 or Extended Warranty Plus

| | |
|---|---|
| Notes | <ul><li>Availability varies by region. Before purchasing, please visit the official web pages of EW201/202 and Extended Warranty Plus for a list of eligible regions.</li><li>The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more)</li></ul> |

## 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
- Quick Installation Guide X 1

## Optional Accessories

- DDR4 ECC SODIMM: D4ES02-4G/D4ES02-8G/D4ES01-16G
- Expansion Units: DX517
- 3.5" SATA HDD: HAT5300
- 2.5" SATA SSD: SAT5210
- M.2 2280 NVMe SSD: SNV3410
- 10GbE Network Upgrade Module: E10G22-T1-Mini
- VisualStation: VS360HD
- Surveillance Device License Pack

# Software Specs

# DSM Specifications

## Storage Management

| Maximum Single Volume Size* | 108 TB |
|---|---|
| Maximum Internal Volume Number | 64 |
| M.2 SSD Storage Pool Support* | v |
| SSD Read / Write Cache (White Paper) | v |
| SSD TRIM | v |

| | |
|---|---|
| Supported RAID Type | • Synology Hybrid RAID<br>• Basic<br>• JBOD<br>• RAID 0<br>• RAID 1<br>• RAID 5 (with Expansion Unit)<br>• RAID 6 (with Expansion Unit)<br>• RAID 10 (with Expansion Unit) |
| RAID Migration | • Basic to RAID 1<br>• Basic to RAID 5 (with Expansion Unit)<br>• RAID 1 to RAID 5 (with Expansion Unit)<br>• RAID 5 to RAID 6 (with Expansion Unit) |
| Volume Expansion with Larger HDDs | • Synology Hybrid RAID<br>• RAID 1<br>• RAID 5 (with Expansion Unit)<br>• RAID 6 (with Expansion Unit)<br>• RAID 10 (with Expansion Unit) |
| Volume Expansion by Adding a HDD | • Synology Hybrid RAID<br>• JBOD (with Expansion Unit)<br>• RAID 5 (with Expansion Unit)<br>• RAID 6 (with Expansion Unit) |
| Global Hot Spare Supported RAID Type | • Synology Hybrid RAID<br>• RAID 1 (with Expansion Unit)<br>• RAID 5 (with Expansion Unit)<br>• RAID 6 (with Expansion Unit)<br>• RAID 10 (with Expansion Unit) |
| Notes | • 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.<br>• Creating M.2 storage pools requires the use of Synology-verified SSDs, which are rigorously tested under extreme temperature conditions. Thermal parameters for SSDs and NAS units are fine-tuned to ensure optimal management of thermal conditions under I/O-intensive environments. (Learn more)<br>• Actual maximum storage pool and volume sizes depend on drive sizes used, the number of drive bays available, and the RAID configuration.<br>• Each internal volume (may consist of multiple drives) is expandable up to 108TB. |

## File Services

| | |
|---|---|
| File Protocol | SMB/AFP/NFS/FTP/WebDAV |
| Maximum Concurrent SMB/AFP/FTP Connections | 500 |
| Maximum Concurrent SMB/AFP/FTP Connections (with RAM expansion) | 2,000 |
| Windows Access Control List (ACL) Integration | v |
| NFS Kerberos Authentication | v |
| Notes | • Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of supported RAM.<br>• 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 Accounts | 2,048 |
| Maximum Local Groups | 256 |
| Maximum Shared Folder | 512 |
| Maximum Shared Folder Sync Tasks | 8 |

## Hybrid Share

| | |
|---|---|
| Maximum Hybrid Share Folders | 10 |

## High Availability

| Synology High Availability | v |
|---|---|

| **Log Center** | |
|---|---|
| Syslog Events per Second | 800 |

| **Virtualization** | |
|---|---|
| VMware vSphere with VAAI | v |
| Windows Server 2016 | v |
| Windows Server 2019 | v |
| Citrix Ready | v |
| OpenStack | v |

| **General Specifications** | |
|---|---|
| Networking Protocols | SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, HTTP, HTTPs, FTP, SNMP, LDAP, CalDAV |
| Supported Browsers | • Google Chrome<br>• Firefox<br>• Microsoft Edge<br>• 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

| **Antivirus by McAfee (Trial)** |
|---|
| v |

| **Central Management System** |
|---|

v

## Synology Chat

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|---|---|
| Maximum Number of Concurrent 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. <br> • When applicable, systems are tested configured with maximum memory and set to allow the maximum number of connections. |

## Document Viewer

v

## Download Station

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|---|---|
| Maximum Concurrent Download Tasks | 80 |

## SAN Manager

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|---|---|
| Maximum iSCSI Target Number | 128 |
| Maximum LUN | 256 |
| LUN Clone/Snapshot, Windows ODX | v |

## Synology MailPlus / MailPlus Server

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|---|---|
| Free Email Accounts | 5 (Licenses required for additional accounts) |
| Maximum Number of Concurrent Users | 100 |
| Maximum Server Performance | 1,224,000 emails per day, approx. 37GB |

| Notes | - Models with 2 bays and dual M.2 drive slots were installed with two SSDs for SSD cache.<br>- For tested models with expandable memory, the maximum amount of RAM was installed.<br>- The performance of the mail system will slightly decrease in high-availability mode due to data synchronization between the two servers.<br>- Functions that were enabled in all of the tests above: anti-spam, anti-virus, DNSBL, greylist, content scan, full-text search (English only). |
| --- | --- |

## Media Server

| DLNA Compliance | v |
| --- | --- |

## Synology Photos

| Facial Recognition | v |
| --- | --- |

## Snapshot Replication

| Maximum Snapshots per Shared Folder | 1,024 |
| --- | --- |
| Maximum of System Snapshots | 65,536 |

## Surveillance Station

| Maximum IP cam (Licenses required) | 40 (including 2 Free License) (see all supported IP cameras) |
| --- | --- |
| Total FPS (H.264) | 1200 FPS @ 720p (1280×720)<br>800 FPS @ 1080p (1920×1080)<br>350 FPS @ 3M (2048×1536)<br>280 FPS @ 5M (2591×1944)<br>170 FPS @ 4K (3840×2160) |
| Total FPS (H.265) | 1200 FPS @ 720p (1280×720)<br>1200 FPS @ 1080p (1920×1080)<br>600 FPS @ 3M (2048×1536)<br>480 FPS @ 5M (2591×1944)<br>200 FPS @ 4K (3840×2160) |

| | |
|---|---|
| Notes | <ul><li>Maximum IP cameras and FPS figures are tested with the device fully populated with drives and under a continuous recording setup.</li><li>Actual system capabilities may differ depending on system configuration, drive performance, number of features enabled, and if additional workloads are present.</li></ul> |

## Synology Drive

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|---|---|
| Recommended Number of Concurrent Sync Clients | 350 (the number of connections that can be maintained when the recommended number of hosted files was reached) |
| Recommended Number of Hosted Files | 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 | <ul><li>Exceeding the recommended numbers above will not block application operations, but may result in longer response time.</li><li>Utilizing SSD cache can significantly improve performance.</li><li>For tested models with expandable memory, the maximum amount of RAM was installed.</li><li>Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.</li></ul> |

## Synology Office

| | |
|---|---|
| Maximum Users | 1,200 |
| Notes | <ul><li>Multiple files were opened for testing and each file was edited by 30 users simultaneously.</li><li>For tested models with expandable memory, the maximum amount of RAM was installed.</li><li>Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM</li></ul> |

## Video Station

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|---|
| v |

## Virtual Machine Manager

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|---|---|
| Recommended Virtual Machine Instances | 4 (Learn more) |
| Recommended Virtual DSM Number (Licenses required) | 4 (including 1 Free License) |
| Notes | The specifications vary depending on system configuration and memory size. |

## VPN Server

| | |
|---|---|
| Maximum Connections | 40 |