Synology®

Product Specifications

SA3400D

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Hardware Specs

Controller	
Number of Controller Module	2

CPU	
CPU Model	Intel Xeon D-1541
CPU Quantity	1 (per controller)
CPU Cores	8
CPU Threads	16
CPU Architecture	64-bit
CPU Frequency	2.1 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	v

Memory	
System Memory	8 GB DDR4 ECC UDIMM (per controller)
Memory Module Pre-installed	8 GB (8 GB × 1) (per controller)
Total Memory Slots	4 (per controller)
Maximum Memory Capacity	64 GB (16 GB × 4) (per controller)
Notes	• Synology may revise pre-installed memory module specifications in response to component lifecycle and supply conditions. All revised components undergo the same rigorous validation to ensure equivalent compatibility, stability, and 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. • For multi-module memory configurations, all modules must be identical and share the same model number. Check the Product Manual of your Synology product for recommended memory configurations.

Storage	
Drive Bays (See all supported drives)	12 × 3.5" dual-port SAS HDD or 2.5" dual-port SAS SSD
Maximum Drive Bays with Expansion Unit	36 (RXD1219sas × 2)
System Drive	1 × SATA DOM (pre-installed)
Hot Swappable Drive*	v
Notes	Synology only guarantees full functionality, reliability, and performance for Synology drives listed on the compatibility list. The use of non-validated components may limit certain functionality and result in data loss and system instability.

External Ports	
RJ-45 1GbE LAN Port	2 (per controller)
RJ-45 10GbE LAN Port	1 (per controller)
Expansion Port	1 (per controller)
Expansion Port Type	Mini-SAS HD
Notes	This device's 1GbE LAN ports have a maximum transmission unit (MTU) size of 1,500 bytes.

PCIe	
PCIe Expansion	1 × Gen3 ×8 slot (x8 link) (per controller)

Appearance	
Form Factor (RU)	2U
Size (Height × Width × Depth)	88 mm × 482 mm × 724 mm
Weight	19.7 kg
Rack Installation Support*	4-post 19" rack (Synology Rail Kit - RKS-02)
Notes	The rail kit is sold separately

Others	
System Fan	60 mm × 60 mm × 2 pcs
Fan Speed Mode	• Full-Speed Mode • Cool Mode • Quiet Mode
Easy Replacement System Fan	v
Power Recovery	v
Noise Level	51.3 dB(A)
Power Supply Unit / Adapter	500 watts
Redundant Power Supply	v
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase
Power Consumption	257.78 watts (Access)
British Thermal Unit	879.58 BTU/hr (Access)
Notes	• Power consumption is measured when it is fully loaded with Synology 12TB HAS5300-12T hard drive(s). • Noise Level Testing Environment: Fully loaded with Synology HAS5300-8T hard drive(s) in the idle state. Two G.R.A.S. Type 40AE microphones, each set up 1 meter away from the Synology NAS at the front and rear. 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 35°C (32°F to 95°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

Warranty	
5 Years	
Notes	The warranty period starts from the purchase date as stated on your purchase receipt. (Learn more)

Environment

RoHS Compliant

Packaging Content

- Main Unit × 1
- Accessory Pack × 1
- AC Power Cord × 2
- Quick Installation Guide × 1

Optional Accessories	
• DDR4 ECC UDIMM: D4EC-2666-8G/D4EC-2666-16G • Expansion Units: RXD1219sas • Enterprise Series 3.5" SAS HDD: HAS5300 Series • 25GbE Network Interface Card: E25G30-F2 • 10GbE Network Interface Card: E10G30-F2/E10G30-T2/E10G18-T1 • Rail Kit Sliding: RKS-02	
Notes	For multi-module memory configurations, all modules must be identical and share the same model number. Check the Product Manual of your Synology product for recommended memory configurations.

Software Specs

DSM Specifications

Storage Management	
Maximum Single Volume Size	• 200 TB (32 GB memory required) • 108 TB
Maximum Internal Volume Number	64
SSD Read/Write Cache (Determining cache size)	v
SSD TRIM	v
Storage Efficiency	v
RAID Group	v
Supported RAID Type	• RAID F1 • Basic • JBOD • RAID 0 • RAID 1 • RAID 5 • RAID 6 • RAID 10
RAID Migration	• Basic to RAID 1 • Basic to RAID 5 • RAID 1 to RAID 5
Volume Expansion with Larger HDDs	• RAID F1 • RAID 1 • RAID 5 • RAID 6 • RAID 10

Volume Expansion by Adding a HDD	• RAID F1 • JBOD • RAID 5 • RAID 6
Global Hot Spare Supported RAID Type	• RAID F1 • RAID 1 • RAID 5 • RAID 6 • RAID 10
Notes	• Volumes over 108 TB require 32 GB of memory or more. • 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. • Storage efficiency helps reduce storage space consumption through deduplication and compression. For more information about this feature and its support requirements, please refer to this article.

File System	
Internal Drives	• Btrfs • ext4

File Services	
File Protocol	• SMB • AFP • NFS • FTP • WebDAV • Rsync
Maximum Number of SMB Connections (FSCT-Based)	1,400
Windows Access Control List (ACL) Integration	v
NFS Kerberos Authentication	v

Notes	• Connection value of this model is tested with Synology SATA SSD fully populated and up to four 10GbE 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	5,120
Maximum Local Groups	512
Maximum Shared Folder	512
Maximum Shared Folder Sync Tasks	32

Hybrid Share	
Maximum Hybrid Share Folders	15

Hyper Backup	
Folder and Package Backup	v
Entire System Backup	v
Notes	Full-system backup requires DSM 7.2 or later.

High Availability	
Synology High Availability	v
Notes	Synology High Availability is a built-in package for SA3400D to maximize service uptime. SA3400D does not support forming a high-availability cluster with another server unit.

Log Center	
Syslog Events per Second	3,000

Virtualization	
VMware vSphere	ESXi 8.0 U2, ESXi 8.0 U1, ESXi 8.0, ESXi 7.0 U3, ESXi 7.0 U2, ESXi 7.0 U1, ESXi 7.0, ESXi 6.7 U3, ESXi 6.7 U2, ESXi 6.7 U1, ESXi 6.7, ESXi 6.5 U3, ESXi 6.5 U2, ESXi 6.5 U1, ESXi 6.5
Microsoft Hyper-V	Windows Server 2025, Windows Server 2022
Citrix XenServer	XenServer 8, Citrix Hypervisor 8.2 LTSR CU1
OpenStack	Cinder

General Specifications	
Supported Protocols	SMB1 (CIFS), SMB2, SMB3, NFSv3, NFSv4, NFSv4.1, NFS Kerberized sessions, iSCSI, Fibre Channel, 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
Maximum De-Identification Rate	1,400 words per second
Notes	• De-identification performance measurement: Filters for Credit Card Numbers, IBAN, Individual Taxpayer Identification Number, SSN, and Names applied to a 4,355-word English text. • To enable de-identification, your device must have at least 8 GB of memory and Container Manager installed.

Synology Chat	
Maximum Number of Users	500
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.

SAN Manager	
Maximum iSCSI Target Number	128
Maximum LUN	256
LUN Clone/Snapshot, Windows ODX	v

Synology MailPlus / MailPlus Server	
Free Email Accounts	5 (Additional accounts require purchase of licenses)
Maximum Number of Users	3,100
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).

Snapshot Replication	
Maximum Snapshots per Shared Folder	512
Maximum Snapshots per LUN	128
Maximum Snapshots per System	16,384
Maximum Replication Tasks for Shared Folders	64
Maximum Replication Tasks for LUNs	32
Maximum Replication Tasks per System	64

Surveillance Station	
Default Licenses	2 (Additional cameras require purchase of licenses)
Maximum IP Cameras and Total FPS (H.264)	• 1080p: 160 channels, 2800 FPS • 3M: 160 channels, 1600 FPS • 5M: 120 channels, 1200 FPS • 4K: 80 channels, 800 FPS
Maximum IP Cameras and Total FPS (H.265)	• 1080p: 200 channels, 6000 FPS • 3M: 160 channels, 2800 FPS • 5M: 160 channels, 1600 FPS • 4K: 120 channels, 1200 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 video channels that can be viewed simultaneously is double the maximum number of cameras for the same codec and resolution. • The values above are based on testing with RTSP streaming. If SRTP is enabled for all cameras, overall performance will decrease to 70% of the stated figures. • Surveillance Station 9.1.3 or above is required to support the maximum IP cameras and FPS figures listed.

Synology Drive	
Maximum Number of Users	2,600
Maximum Number of Hosted Files	25,000,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)
Notes	• 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	2,600
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	16 (Learn more)
Recommended Virtual DSM Number (Licenses required)	16 (including 1 Free License)
Notes	The specifications vary depending on system configuration and memory size.

VPN Server	
Maximum Connections	32