# SA3400D



Brand: Synology Product Code: SA3400D Availability: 10 Weight: 19.70kg Dimensions: 88.00mm x 482.00mm x 724.00mm Call for Price:

Short Description Synology 12-Bay Active-Passive Dual Controller NAS SA3400D (Diskless)

Description

# High-availability file and block storage solution



Maintain data availability with an active-passive high availability dual-controller module



### Versatile applications

Manage, distribute, and protect data, back up endpoints, and guard physical premises



### Fast and efficient

Over 3,500/2,900 MB/s seq. read/write throughput and over 500 TB maximum storage capacity.

### **Built-in High Availability**

Keep file sharing services, block storage, backups, and other office applications online with automatic minute-level failover. Defend against operational disruptions with two independent and hot-swappable controllers operating in an active-passive configuration.

### Made for demanding environments

The SA3400D is engineered to provide outstanding performance in both NAS and SAN storage roles. Its throughput and random I/O performance support efficient SMB and NFS file serving as well as a range of iSCSI and Fibre Channel block storage applications.

## Consolidate your data infrastructure

Manage, protect, and share data with versatile business solutions. Empower team collaboration, sandbox applications, and provide VM storage on a unified platform.

Private cloud management

#### Efficient and secure folder sharing

View, edit, and share data through desktop, mobile, and web-based applications. Enable user access to shared folders over SMB or NFS and leverage Microsoft AD or LDAP integration for efficient user access and permissions management.

#### Efficient cross-site file syncing



### **Built-in data protection**

#### Back up PCs, servers, SaaS accounts, and VMs

Consolidate and automate backup tasks for PCs, servers, VMs, SaaS applications, and more with Active Backup Suite. Manage all backup tasks from a central console and quickly restore specific files, entire devices, virtual services, and employee SaaS accounts to keep your business running. Create off-site backups for shared folders, LUNs, and more



#### **Business productivity solutions**

#### Boost team productivity with collaborative tools

Improve collaboration in the workplace with Synology productivity solutions. Create, edit, and share documents across teams in real time with Synology Office. Host an onpremises mail server with MailPlus, providing web-based email access while retaining full data ownership. And stay connected via secure one-on-one chats, public channels, encrypted private channels, and group conversations in Synology Chat.

#### Sandbox and instantly restore critical services

Supports industry-leading virtualization platforms



### Flexible options to meet changing needs

Flexibly scale storage capacity, optimize I/O performance, and meet different network needs with a range of expansion options.

### Add storage capacity on demand

Scale server capacity up to 576 TB when your data storage needs increase by adding two 12-bay <u>RXD1219sas</u> expansion units.

### **Boost network and I/O performance**

Add 10/25GbE connectivity with optional add-in cards. Create all-flash storage volumes with SAS SSD for lightening-fast I/O, or boost IOPS and cut down latency on HDD volumes by creating SAS SSD read/write cache volumes.



### Synology has you covered

The SA3400D is backed by Synology's 5-year limited warranty, including technical support and hardware replacement services to maximize your return on investment and ensure continuous, high-quality performance.

### Software DSM Specifications Storage Management

Maximum Single Volume Size

Maximum Internal Volume 64 Number SSD Read/Write Cache (Determining cache size) SSD TRIM RAID Group Supported RAID Type

- 200 TB (32 GB memory required)
   108 TP
- 108 TB

• RAID F1

• Basic

- JBOD
- RAID 0
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- Basic to RAID 1
- Basic to RAID 5
- RAID 1 to RAID 5
- RAID F1
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- RAID F1
- JBOD
- RAID 5
- RAID 6
- RAID F1
- RAID 1
- RAID 5
- RAID 6
- RAID 10
- 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.
- Volumes over 108 TB require 32 GB of memory or more.
- Btrfs
- ext4
- SMB
- AFP
- NFS
- FTP
- WebDAV
- Rsync

**RAID** Migration

Volume Expansion with Larger HDDs

Volume Expansion by Adding a HDD

Global Hot Spare Supported RAID Type

Notes

File System

**Internal Drives** 

File Services

File Protocol

Maximum Concurrent1,200SMB/AFP/FTP Connections6,000Maximum Concurrent6,000SMB/AFP/FTP Connections(with RAM expansion)Windows Access ControlList (ACL) IntegrationNFS Kerberos AuthenticationNotes

- Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of supported RAM.
- During testing, the maximum number of SSDs supported by this model is installed in a RAID 5 configuration.
- 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 Maximum Local Groups Maximum Shared Folder

16,000

512 512

	Maximum Shared Folder	32
Hybrid Share	Sync Tasks Maximum Hybrid Share Folders	30
Hyper Backup	Folder and Package Backup Entire System Backup	
	Notes	Full-system backup requires DSM 7.2 or later.
<u>High Availability</u>	Synology High Availability 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 Virtualization	Syslog Events per Second VMware ESXi 6.5 and VAA Windows Server 2022 Citrix Ready OpenStack	3,000 I
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	<ul><li>Chrome</li><li>Firefox</li><li>Edge</li><li>Safari</li></ul>
	Supported Language	English, Deutsch, Français, Italiano, Español, Dansk, Norsk, Svenska, Nederlands, ??????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ??????, ???, ???, ????, ????
	Notes	For an updated list of supported browser versions,

#### Specifications. Add-on Packages view the complete package list Central Management System Synology Chat Suggested 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 their maximum supported memory. SAN Manager 256 Maximum iSCSI Target Number Maximum LUN 512 LUN Clone/Snapshot, Windows ODX Synology MailPlus / Free Email Accounts 5 (Additional accounts **MailPlus Server** require purchase of licenses) 10,000 Suggested Users Notes • Suggested users is

 Suggested users is derived from testing in an environment with 20% heavy users (each with 20,000 prepopulated emails and receiving 240 emails per day) and 80% light users (each receiving an average of 20 emails per day). Learn more

check the **DSM** Technical

• The performance of the mail system will slightly decrease in high-availability

mode due to data synchronization between the two servers.

- Functions that were enabled in all of the tests above: antispam, anti-virus, DNSBL, greylist, content scan, full-text search (English only).
- Models with expandable memory are tested with their maximum supported memory. To estimate the RAM requirement for your NAS, please <u>read this article</u>

#### **Snapshot Replication**

Surveillance Station

Maximum Snapshots per Shared Folder Maximum of System Snapshots Default Licenses

Suggested Maximum IP Cameras and Total FPS (H.264)

Suggested Maximum IP Cameras and Total FPS (H.265) 1,024

65,536

2 (Additional cameras require purchase of licenses)

- 1080p: 160 channels, 2800 FPS
- 3M: 160 channels, 1600 FPS
- 5M: 120 channels, 1200 FPS
- 4K: 80 channels, 800 FPS
- 1080p: 200 channels, 6000 FPS
- 3M: 160 channels, 2800 FPS
- 5M: 160 channels, 1600 FPS
- 4K: 120 channels, 1200 FPS

Notes

- Surveillance Station 9.1.3 or above is required to support the maximum IP cameras and FPS figures listed.
- 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 <u>NVR Selector</u> 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

Synology Drive	Recommended Number of Concurrent Sync Clients Recommended Number of Hosted Files	the same specification at the same time. 2,000 (the number of connections that can be maintained when the recommended number of hosted files was reached) 50,000,000 (applies to files indexed or hosted by <u>Synology Drive</u> . 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>Models with expandable memory are tested with their maximum supported memory.</li> <li>Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.</li> </ul>
Synology Office	Suggested Users Notes	<ul> <li>12,500</li> <li>Suggested users is derived from testing in an environment with 60% idle users (each logging in and viewing documents)</li> </ul>

and 40% active users

		<ul> <li>random actions at intervals of 20 to 40 seconds) operating within documents, each document having 30 users. Learn more</li> <li>Models with expandable memory are tested with their maximum supported memory.</li> <li>Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM</li> </ul>
Virtual Machine Manager	Recommended Virtual	16 (Learn more)
	Machine Instances	
		16 (including 1 Free License)
	Number (Licenses required)	
	Notes	The specifications vary
		depending on system
		configuration and memory size.
VPN Server	Maximum Connections	60
	Muximum Connections	00

(each executing

### Specification

<b>A</b>	
NAS	
CPU Model	Intel Xeon D-1541
CPU Quantity	1 (per controller)
CPU Core	8
CPU Architecture	64-bit
CPU Frequency	2.1 (base) / 2.7 (turbo) GHz
Hardware Encryption	Yes
Engine	
Memory	8 GB DDR4 ECC UDIMM (per controller)
Drive Bays	12
Hot Swappable Drive	Yes
RJ-45 1GbE LAN Port	2 (per controller)
System Fan	60 mm x 60 mm x 2 pcs

500 watts
4 (per controller)
64 GB (16 GB x 4) (per controller)
1 (per controller)
1 x Gen3 x8 slot (x8 link) (per controller)
2U
Yes
1 (per controller)

### **Product Gallery**