FlashStation FS2500

Brand: Synology

Product Code: FS2500

Availability: 10 **Weight:** 8.30kg

Dimensions: 44.00mm x 481.90mm x

555.90mm

Price: 230,000.00EGP

Short Description

Synology 12 Bay FlashStation FS2500 (Diskless)

Description

Boost your applications with low-latency storage



Quad-core AMD® RyzenTM



Throughput

Up to 172,552/82,917 4K random read/write IOPS



Form Factor

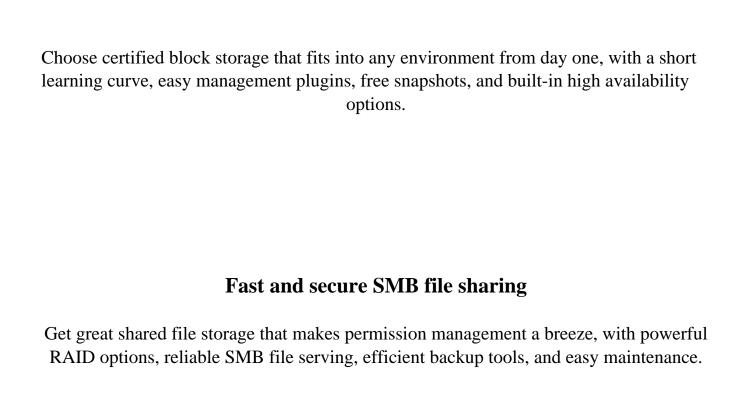
Rackmount 1U



Networking

Built-in dual 10GbE and dual Gigabit Ethernet ports
Dependable storage for many scenarios
Synology NAS is a versatile storage platform that fits perfectly in file server, block storage, or light application server roles that require high availability, reliability, and leading-edge storage technology.
storage, or light application server roles that require high availability, reliability, and
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Simple and efficient SAN storage



Business application platform

Host cost-efficient business solutions, including a powerful free backup server, a versatile mail server, lightweight directory server, or surveillance server with transparent licensing.

All the connectivity options you need

Ample built-in and supported networking options ensure that your applications fully benefit from the speed of all-flash arrays and make the FS2500 easy to integrate in any IT environment.

Built-in connectivity

Leverage fast transfer speeds right out of the box and integrate easily with your existing infrastructure with dual 10GbE and dual 1GbE ports.

Support for 25/40GbE

Enable faster networking with 25 or 40GbE network interface cards, thanks to the PCIe 3.0 expansion slot.

Built to boost service continuity

The FS2500 protects data and services through robust hardware and software safeguards, ensuring access to your digital assets even in the face of disaster.

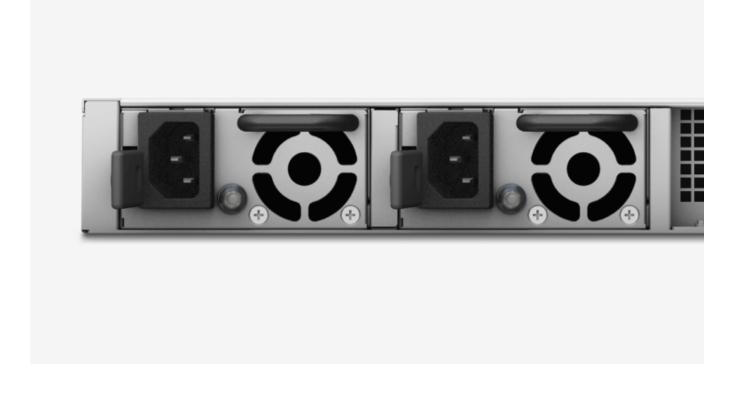
Redundancy first

Dual power supply

Reduce the possibility of	f power disruptions o	n a single distribution of	channel or PDU
adversely impacting	ng data and service av	vailability with redunda	ant PSUs.

Modular components

Automatic failover



Availability and protection

Synology High Availability (SHA)

Enable automatic minute-level failover by pairing up two FS2500 units to create a high-

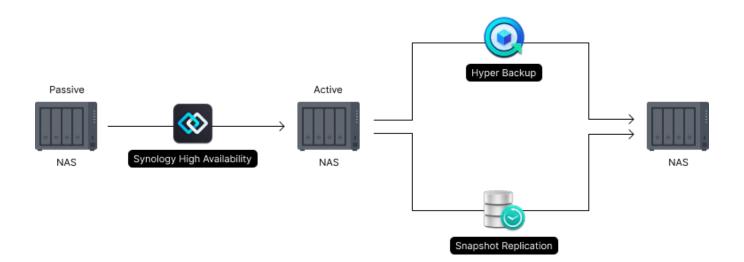
availability cluster, minimizing service downtime in the event of a server failure.

Snapshot Replication

Create point-in-time snapshots of LUNs and shared folders with an RPO as low as 5 minutes, with support for granular version control.

Hyper Backup

Back up files, LUNs, applications, and system configurations on your NAS to other Synology NAS, <u>Synology C2 Storage</u>, public cloud platforms, USB devices, file servers, or local folders.



Flash volume deduplication

Remove duplicate data on all-flash arrays with volume-wide deduplication to greatly increase storage efficiency. Eliminate redundant data to save up to 65% in storage space use in applications like virtual desktop infrastructure, and virtual machine.



Complete virtualization platform

Deploy the FS2500 as fast and efficient <u>VM storage</u> and benefit from free native hosting, management, and protection tools in Synology DiskStation Manager (DSM).

Certified storage for VMs and containers

Deploy and facilitate storage operations in various <u>virtualization environments</u> with full certification for VMware[®] vSphereTM, Microsoft[®] Hyper-V[®], Citrix[®] XenServerTM, and OpenStack, and a Kubernetes CSI driver for integrated volume management.

VM and container storage on all-flash arrays can benefit from volume-wide data deduplication, a technology that removes identical data to optimize storage use.



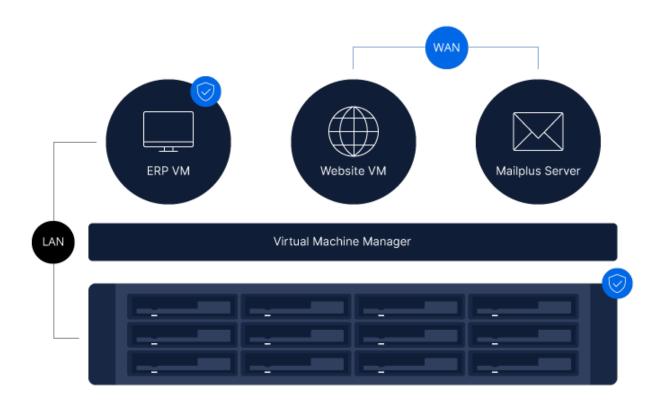






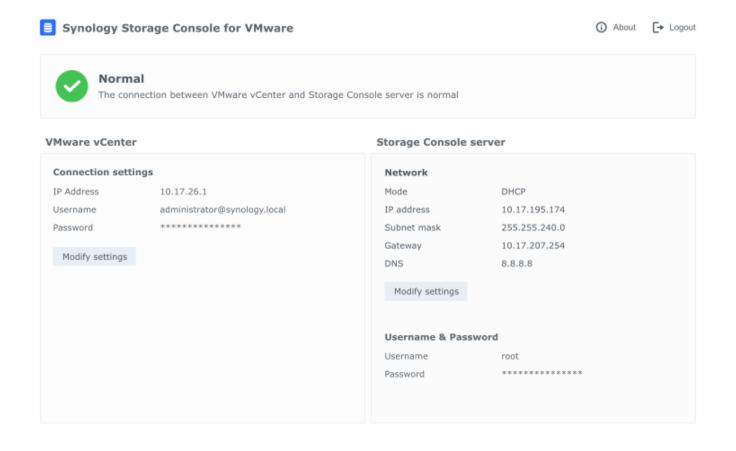
Alternative VM host for testing and recovery

Synology Virtual Machine Manager (VMM) is a hypervisor for Windows[®] and Linux[®] VMs or Virtual DSM, a virtualized version of DSM. Use your Synology device as an alternative host for VMs to quickly recover services following failure or run failover copies of PCs, servers, and VMs created with Active Backup for Business (ABB), DSM's data protection tool for physical and virtual environments.



Streamlined configuration and administration

Manage storage directly from your hypervisor with Synology Storage Console for VMware[®] or Windows platforms, provision volumes directly from the Kubernetes CLI, and offload storage operations and speed up data transfer through VMware[®] VAAI integration and Windows ODX.



Enabling effective collaboration

Give your teams reliable tools to collaborate and communicate, wherever they are.

Synology MailPlus

Set up a private and secure mail server that can be merged with existing IT infrastructure and platforms.

Synology Office

Collaborate in real time on documents, spreadsheets, and slides for greater synergy and productivity.

Synology Drive

Host your own private cloud on the safety of your NAS with 100% data ownership and no subscription fees.



Get more with DiskStation Manager

Take advantage of a whole host of native productivity, management, and security solutions available on the web-based Synology DSM operating system.

Data Protection

Keep your business safe from data loss and minimize service downtime.
User Management
Manage user accounts and devices throughout your business with powerful directory services.
Security
Shield your Synology NAS from the most sophisticated threats with industry-leading security solutions.
File Management

Manage, sync, and share files from multiple devices through a centralized platform.
System Administration
Manage the health of your deployments and centrally administer updates with ease.
Public Cloud Integration

Back up and synchronize data easily between public cloud accounts and your NAS.



Synology has you covered

The FS2500 is backed by Synology's 5-year limited warranty, including technical support and hardware replacement services to maximize your return on investment and ensure continued high-quality performance.

DSM Specifications

Storage Management

Maximum Single Volume Size

• 200 TB (32 GB memory required)

• 108 TB

256

Maximum Internal Volume

Number

SSD Read/Write

Cache (Determining cache

size)

SSD TRIM

RAID Group

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

• RAID 5 to RAID 6

Volume Expansion with

Volume Expansion by

Larger HDDs

Adding a HDD

• RAID F1

• RAID 1

• RAID 5

• RAID 6

• RAID 10

• RAID F1

• JBOD

• RAID 5

• RAID 6

Global Hot Spare Supported

RAID Type

• 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

Notes

on the filesystem and the amount of system metadata stored.

• Volumes over 108 TB require 32 GB of memory or more.

Internal Drives • Btrfs

• ext4

External Drives • Btrfs

• ext4

• ext3

• FAT

• NTFS

• HFS+

• exFAT

Notes exFAT Access can be

installed for free from

Package Center in DSM 7.0.

In DSM 6.2 or earlier versions, exFAT Access needs to be purchased in

Package Center.

• SMB

• AFP

NFS

• FTP

WebDAV

• Rsync

Maximum Concurrent 2,000

SMB/AFP/FTP Connections

Maximum Concurrent 8,000

SMB/AFP/FTP Connections

(with RAM expansion) Windows Access Control List (ACL) Integration

Notes

NFS Kerberos Authentication

• Regarding data concerning tests with RAM expansion, all memory slots are installed with the maximum capacity of

File Services

File System

File Protocol

supported	RAM.
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- 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.

N/ ' T 1TT	16,000
Maximum Local User	16,000
Accounts	
Maximum Local Groups	512
Maximum Shared Folder	512
Maximum Shared Folder	32
Sync Tasks	
Maximum Hybrid Share	30
Folders	
Folder and Package Backup	
Entire System Backup	
Notes	Full-system backup requires
	DSM 7.2 or later.
Synology High Availability	
	Maximum Local Groups Maximum Shared Folder Maximum Shared Folder Sync Tasks Maximum Hybrid Share Folders Folders Folder and Package Backup Entire System Backup Notes

Syslog Events per Second

Windows Server 2022

Citrix Ready OpenStack

VMware ESXi 6.5 and VAAI

3,000

Log Center

Virtualization

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, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ????, ???? 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 **Synology Chat** 300 Suggested Users Notes Models with expandable memory are tested with their maximum supported memory. Maximum iSCSI Target 256 **SAN Manager** Number Maximum LUN 512 LUN Clone/Snapshot, Windows ODX Synology MailPlus / Free Email Accounts 5 (Additional accounts MailPlus Server require purchase of licenses) 5,000 Suggested Users **Notes** • Suggested users is derived from testing

in an environment

with 20% heavy users (each with 20,000 pre-

populated emails and receiving 240 emails per day) and 80% light users (each receiving an average of 20 emails per day). Learn more

- 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

Maximum Snapshots per Shared Folder Maximum of System Snapshots

65,536

Surveillance Station

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

Default Licenses

2 (Additional cameras require purchase of licenses)

- 1080p: 100 channels, 2800 FPS
- 3M: 100 channels, 1200 FPS
- 5M: 70 channels, 700

1,024

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

Notes

- **FPS**
- 4K: 50 channels, 500 FPS
- 1080p: 100 channels, 3000 FPS
- 3M: 100 channels, 2400 FPS
- 5M: 100 channels, 1300 FPS
- 4K: 80 channels, 800 FPS
- 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 the same specification at the same time.

Synology Drive

Recommended Number of Concurrent Sync Clients

900 (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 Synology Drive. For file access through other standard protocols, refer to the File

Recommended Number of Hosted Files

Services section above)

Notes

- Exceeding the recommended numbers above will not block application operations, but may result in longer response time.
- Utilizing SSD cache can significantly improve performance.
- Models with expandable memory are tested with their maximum supported memory.
- Btrfs file system and non-encrypted shared folders were used during the aforementioned testing.

Synology Office

Suggested Users Notes 12,500

• Suggested users is derived from testing

in an environment with 60% idle users (each logging in and viewing documents) and 40% active users (each executing random actions at intervals of 20 to 40 seconds) operating within documents, each document having 30 users. Learn more

- Models with expandable memory are tested with their maximum supported memory.
- Client performance may affect maximum simultaneous editing users. Client PCs used for testing: Intel Core i3-3220 / 8GB RAM

<u>Virtual Machine Manager</u> Recommended Virtual 8 (<u>Learn more</u>)

Machine Instances

Recommended Virtual DSM 8 (including 1 Free License)

Number (Licenses required)

Notes The specifications vary

depending on system

configuration and memory

size.

<u>VPN Server</u> Maximum Connections 60

Specification

Specification	
NAS	
CPU Model	AMD Ryzen V1780B
CPU Quantity	1
CPU Core	4
CPU Architecture	64-bit
Hardware Encryption Engine	Yes
Memory	8 GB DDR4 ECC UDIMM

Drive Bays	12
Hot Swappable Drive	Yes
RJ-45 1GbE LAN Port	2
USB 3.2 Gen 1 Port	2
System Fan	40 mm x 40 mm x 4 pcs
Power Supply Unit /	350 watts
Adapter	
Total Memory Slots	2
Maximum Memory	32 GB (16 GB x 2)
Capacity	
PCIe Expansion	1 x Gen3 x8 slot (x4 link)
Form Factor (RU)	1U
Redundant Power Supply	Yes
RJ-45 10GbE LAN Port	2

Product Gallery