FlashStation FS3410

Brand: Synology

Product Code: FS3410

Availability: 10 **Weight:** 15.00kg

Dimensions: 88.00mm x 482.00mm x

724.00mm

Call for Price:



Short Description

Synology 24-Bay FlashStation FS3410 (Diskless)

Description

Harness all-flash storage to speed up business workflows



Supports 24 x 2.5" SATA SSDs



Throughput

Over 356,500/129,400 iSCSI 4K random read/write IOPS



Memory

16 GB DDR4 ECC RDIMM, up to 128 GB



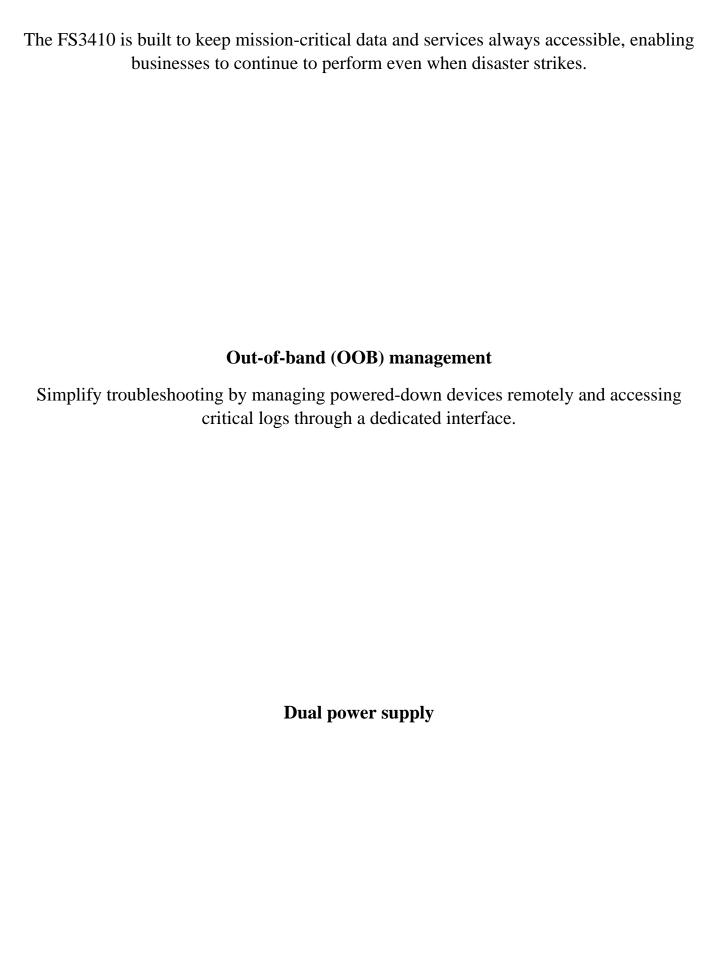
Expandability

Optional 25/40GbE through PCIe 3.0 expansion

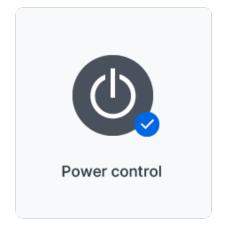
Powerful flash storage server

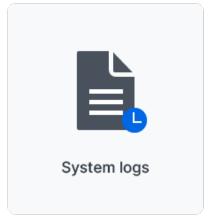
Combine all-flash performance with Synology systems' ease of use and reliability. The FS3410 is designed to tackle scenarios that require high throughput and low latency.

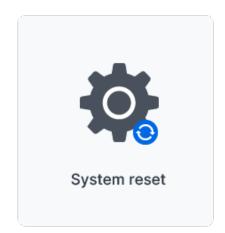
Built for high reliability



Failover cluster







Powerful networking options

The FS3410 supports a wide range of networking interfaces, protocols, and configurations, whether you need fast sequential transfer, support for simultaneous connections, or high network redundancy.

Built-in fast connectivity

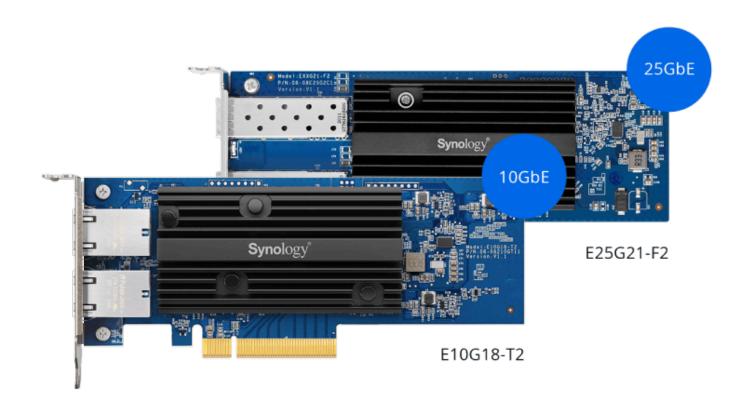
Two 10GbE RJ-45 ports and four Gigabit Ethernet ports allow for rapid transfer speeds right out of the box.

Support for 10/25/40GbE

Add up to 2 x 10/25/40GbE network interface cards using the 2 x PCIe 3.0 slots to enable lightning fast networking in minutes.

Failover and network balancing

Bond multiple network interfaces with Link Aggregation to enable automatic network failover and load balancing.



Versatile data storage

The FS3410 fits perfectly in file server, block storage, or light application server roles that require high availability, reliability, and leading-edge storage technology.



VM storage & protection



High-performance file serving & syncing



Business application platform

VM storage & protection

Extremely fast IOPS performance combined with support for common virtualization platforms, iSCSI SAN service management, and extensive VM protection solutions make the FS3410 ideal for supporting and protecting VMs.

Complete SAN VM storage solution

Efficient and reliable SAN VM storage

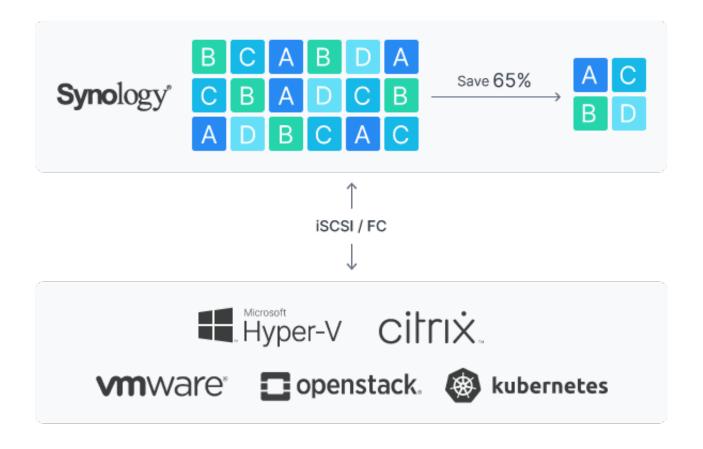
SAN management is a breeze thanks to SAN Manager, which provides LUN management, global monitoring, iSCSI configuration and disk space optimization from a single, intuitive interface.

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

Synology High Availability provides automatic minute-level failover of stored VMs by pairing up two FS3410 units to create a high-availability cluster.

Maximize space efficiency

VM and container storage on all-flash arrays can take advantage of volume-wide data deduplication, which removes identical data to optimize storage use.



VM backup and protection

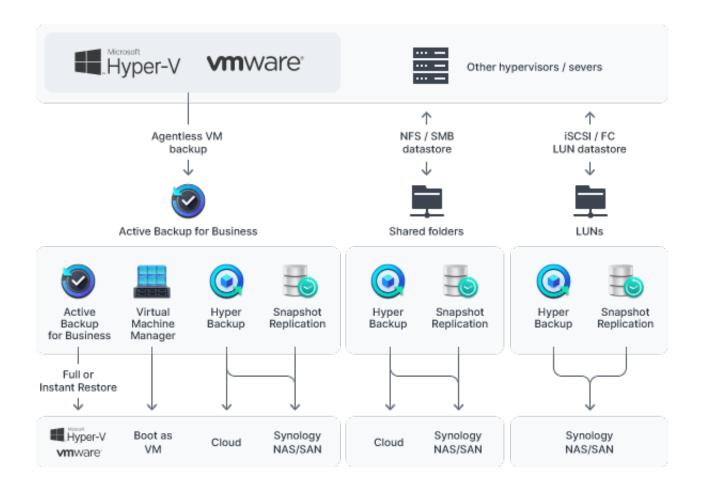
Reliable VM backups at no extra cost

Back up unlimited VMware vSphere and Microsoft Hyper-V virtual machines from physical servers using <u>Active Backup for Business</u>. When unexpected interruptions occur or in upgrade testing environments quickly migrate them to <u>Virtual Machine Manager</u> (VMM).⁴

Block-level LUN snapshots and backups

Leverage <u>Snapshot Replication</u> for point-in-time snapshots of LUNs and shared folders with an RPO as low as 5 minutes. Replications can be managed in vCenter Site Recovery Manager and can be directly recovered via VMware vCenter Server for a simplified recovery process.

Use <u>Hyper Backup</u> for full data LUN and shared folder backups to a local or remote Synology system.



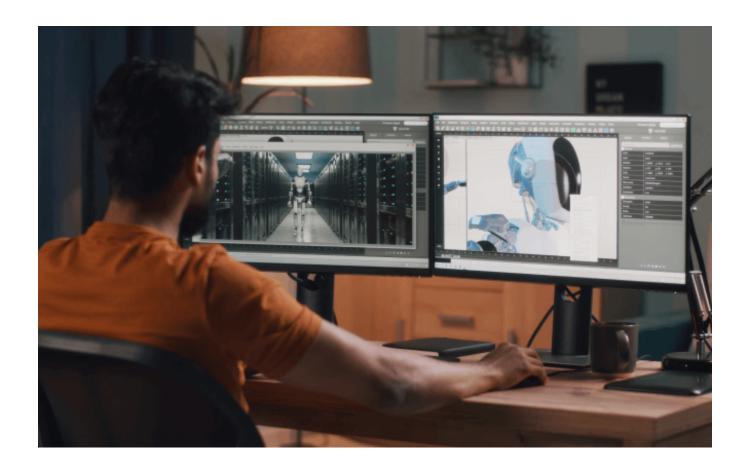
High-performance file serving & syncing

Leverage FS3410's blistering speeds to provide low-latency access to massive files. Enhance the collaborative process with powerful and user friendly cross-site syncing capabilities.

Lightning-fast access to large files

Built to handle demanding workflows

Fast network capability paired with all-flash performance means that the FS3410 is capable of taking on data and network-intensive workloads with multiple users accessing large files via SMB or NFS such as video post-production, BIM, and large-scale CAD projects.



Speedy and efficient collaboration

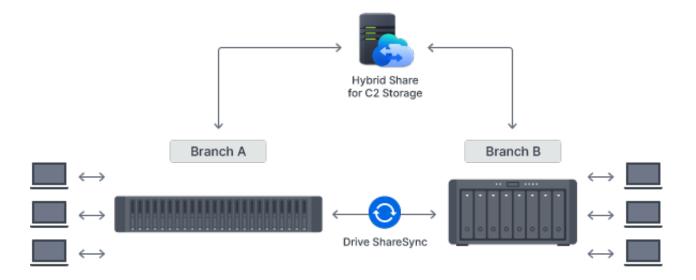
Secure site-to-site file and folder syncing

Make sure branches have quick access to data teams use to collaborate by syncing folders one or two way using Synology Drive ShareSync.

Efficient cross-site syncing through the cloud

Using <u>Synology Hybrid Share</u>, store large sets of data on the cloud and leverage the powerful bandwidth of our data centers to stream requested files to local NAS deployed at branch offices, no matter their size.

Frequently used files are kept on the local NAS to provide access at LAN speeds, with the option to pin them manually to prevent removal from the cache.



Business application platform

Host cost-efficient business solutions, either through containers, virtual machines, or
Synology DiskStation Manager (DSM)'s own solutions, including a powerful free
backup suite, a versatile mail server, and a surveillance VMS with transparent licensing.

Enabling effective collaboration

Synology Drive

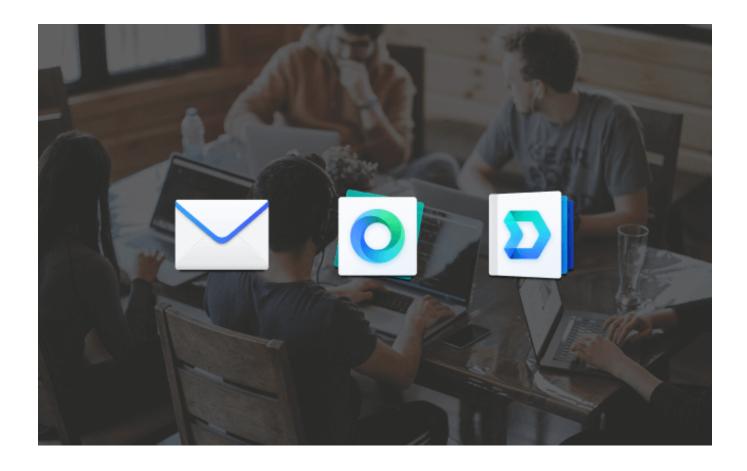
Host your own private cloud on the safety of your NAS with 100% data ownership and no subscription fees.

Synology Office

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

productivity. Synology MailPlus

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



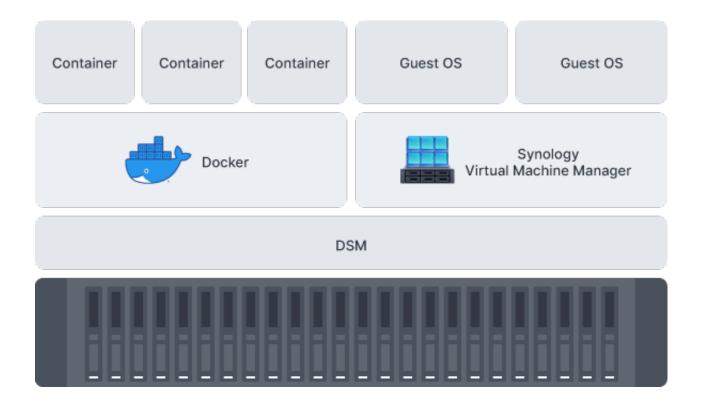
Containerization and virtualization-ready

Docker

Docker on Synology DSM provides a virtualization environment that allows you to implement lightweight containers running thousands of applications.

Synology Virtual Machine Manager

Synology Virtual Machine Manager (VMM) is a hypervisor for Windows® and Linux® VMs or Virtual DSM, a virtualized version of DSM.



Get more with DiskStation Manager

Take advantage of a host of native productivity, management, and security sol	utions
available in the web-based Synology DSM operating system.	

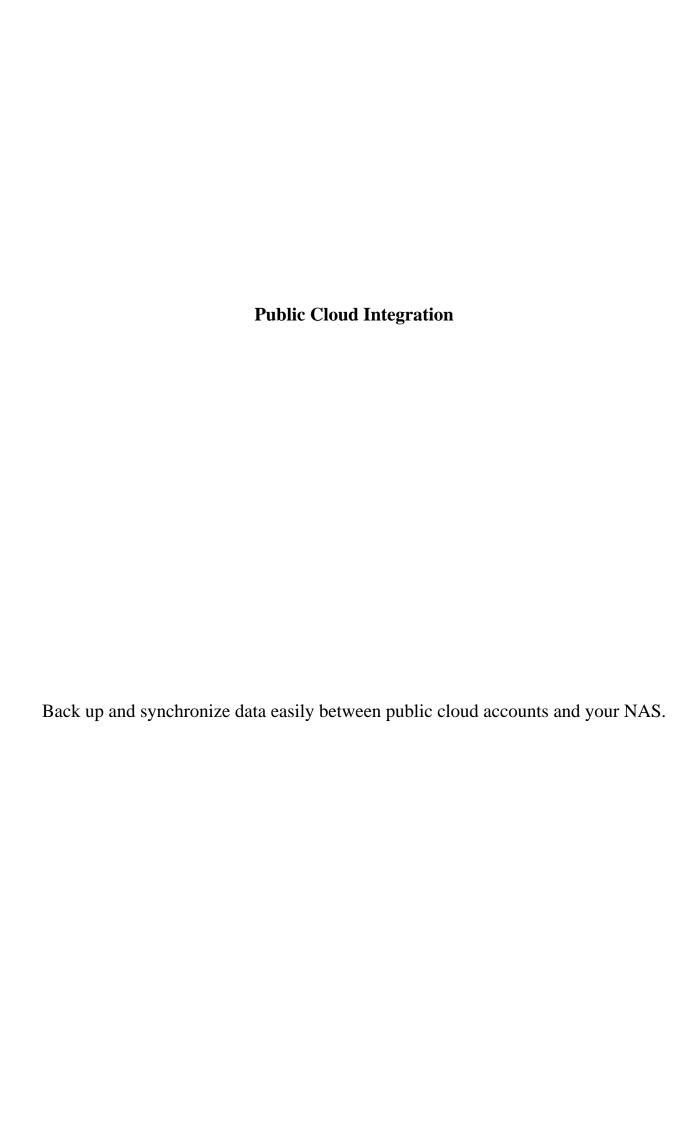
Data Protection

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.





Synology has you covered

The FS3410 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.

Software DSM Specifications

Storage Management

Maximum Single Volume Size

- 1 PB (64 GB memory required, for RAID 6 groups only)
- 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 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

• RAID 6
• RAID F1

• RAID 1

• RAID 5

• RAID 6

• RAID 10

Global Hot Spare Supported RAID Type

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.

 When Peta Volume is enabled, validated services and packages are required. Please refer to this article for more information on limitations.

- Actual maximum storage pool and volume sizes depend on drive sizes used. the number of drive bays available, and the RAID configuration.
- Volumes over 108 TB require 32 GB of memory or more.
- Btrfs
 - ext4
- **External Drives** • Btrfs
 - ext4
 - ext3
 - FAT
 - NTFS
 - HFS+
 - exFAT

exFAT Access can be **Notes**

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.

File Protocol

- SMB
- AFP
- NFS
- FTP
- WebDAV
- Rsync

Maximum Concurrent 4,000

SMB/AFP/FTP Connections

Maximum Concurrent 10,000

SMB/AFP/FTP Connections

(with RAM expansion)

Windows Access Control

List (ACL) Integration

NFS Kerberos Authentication

Notes • Regarding data

File Services

File System

Internal Drives

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.

	\mathcal{C}
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 Log Center 3,000 Virtualization VMware ESXi 6.5 and VAAI Windows Server 2022 Citrix Ready **OpenStack Supported Protocols** General Specifications 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, ???????, Polski, Magyar, Português do Brasil, Português Europeu, Türkçe, ?eský, ???????, ???, ???, ????, ???? For an updated list of Notes supported browser versions, check the DSM Technical Specifications.

Add-on Packages view the complete package list

Central Management System

Synology Chat Suggested Users

Notes

500

- 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 Maximum iSCSI Target 256

Number

Maximum LUN 512

LUN Clone/Snapshot,

Windows ODX

Synology MailPlus / Free Email Accounts

Suggested Users

MailPlus Server

Notes

5 (Additional accounts require purchase of licenses)

10,000

- 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
- 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 1,024

Shared Folder

Maximum of System 65,536

Snapshots

<u>Surveillance Station</u> Default Licenses 2 (<u>Additional cameras require</u>

purchase of licenses)

Suggested 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

• 1080p: 200 channels, 6000 FPS

• 3M: 160 channels, 2800 FPS

• 5M: 160 channels, 1600 FPS

• 4K: 120 channels, 1200 FPS

• 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.

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

Notes

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

Recommended Number of Concurrent Sync Clients

> hosted files was reached) 50,000,000 (applies to files

Recommended Number of **Hosted Files**

indexed or hosted

2,000 (the number of

connections that can be maintained when the

recommended number of

by **Synology Drive**. For file access through other standard protocols, refer to the File Services section above)

• Exceeding the recommended numbers above will

Notes

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.

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

Synology Office Suggested Users
Notes

for testing: Intel Core i3-3220 / 8GB RAM

<u>Virtual Machine Manager</u> Recommended Virtual 16 (<u>Learn more</u>)

Machine Instances

Recommended Virtual DSM 16 (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

Intel Xeon D-1541
1
8
64-bit
2.1 (base) / 2.7 (turbo) GHz
Yes
16 GB DDR4 ECC RDIMM
24
Yes
4
2
80 mm x 80 mm x 4 pcs
550 watts
4
128 GB (32 GB x 4)
2 x Gen3 x8 slots (x8 link)
2U
Yes
2

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