Synology

Datasheet

FlashStation

FS3600

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FlashStation

FS3600

Accelerate Your Business with an Affordable All-Flash Solution

FS3600 is a 24-bay all-flash NAS that lets enterprises boost the performance of I/O sensitive applications such as database, virtualization, and online transaction processing (OLTP) at a competitive total cost of ownership. Powered by Synology's award-winning DiskStation Manager (DSM) operating system, FS3600 simplifies data management tasks with an intuitive and efficient user interface. A wide range of integrated data protection features helps maintain high service availability.

- **High Performance**
  Over 173,000 iSCSI 4K random write IOPS[1]
- **Easy System Administration**
  Easy to deploy with an intuitive user interface
- **Effortless Capacity Expansion**
  Flexibly scale up to 72 drives[2] to increase storage capacity as demand grows
- **Virtualization-Ready**
  Integration with virtualization platforms at no extra cost
- **Protect and Restore Data in a Snap**
  Back up critical data and reduce your Recovery Time Objective (RTO) with Snapshot Replication
- **Boost Business Productivity**
  Build an on-premises, multi-user collaboration environment with fine-grained controls

Fast, Scalable, and Affordable

FS3600 is an all-flash NAS solution that delivers more than **173,000 iSCSI 4K random write IOPS**[1], ideal for enterprises looking for high-speed infrastructure that responds fast under I/O intensive workloads, such as database, virtualization, or OLTP applications. FS3600 is **10GbE-ready** and is easily integrated to businesses' existing LAN environment, with a competitive total cost of ownership.

Powered by **Synology DiskStation Manager (DSM)**, the award-winning and web-based operating system, FS3600 provides an intuitive graphical user interface that lets IT administrators manage and monitor system resource easily and efficiently. FS3600 supports easy storage capacity expansion using Synology Expansion Unit **FX2421/RX1222sas**[2], without removing existing data or installing additional management software.

Built for Your SAN Storage Needs

Synology FS3600 offers a fully certified virtualization solution with support for **VMware® vSphere™**, **Microsoft® Hyper-V®**, **Citrix® XenServer™**, and **OpenStack® Cinder**. It supports both **iSCSI** and **NFS** protocols, and integrates with **VMware VAAI** and **Microsoft ODX**, allowing IT administrators to effectively deploy and facilitate storage operations in various virtualization environments. IT administrators can efficiently manage virtualized workloads using Synology's intuitive user interface, as well as add-on plugins for VMware and Windows environments. Features including **instant snapshots**, **fast cloning**, **NFS v4.1**, and **thin provisioning** deliver more flexibility to accommodate different administration needs.

At no additional license cost, you can further protect your virtualized workload with a comprehensive suite of data protection applications, including **Synology Snapshot Replication**, **Hyper Backup**, **Active Backup for Business** and **Synology High Availability**, to handle various protection scenarios.

Running & Protecting Virtual Machines

Synology Virtual Machine Manager (VMM) is an intuitive hypervisor application that lets users easily set up virtual machines and run operating systems including **Windows®**, **Linux®**, and **Virtual DSM**. With VMM, users can build up a cluster environment with multiple Synology systems while keeping the flexibility to scale out online and migrate virtual machines for load balancing and resource allocation. Disaster recovery features including instant snapshot, replication, cloning,

restore and failover help you fully protect each virtual machine and safeguard your digital assets at no additional cost.

VMM Pro licenses give access to advanced features including remote replication, remote storage migration, high availability and live migration, helping users further minimize the risk of service downtime and manage IT resources with maximum flexibility.

Service Continuity Safeguards

Service continuity is critical for modern businesses. FS3600 brings thoughtful software and hardware integration to ensure a high standard of system availability if a disaster or major outage occurs.

- **Synology High Availability** provides fast transitions between clustered servers to keep services online.
- **Snapshot Replication** provides schedulable, near-instantaneous data protection with version control, ensuring that documents in shared folders and VMs on iSCSI LUNs remain safe and available.
- Redundant components, including power supply units, system fans, and network ports support automatic failover to eliminate single points of hardware failure.

On-premises Collaboration & Synching Solution

FS3600 comes with Synology Collaboration Suite, the productivity and file sharing solution that powers team collaboration while leveraging the advantages of the private cloud to fully control data and prevent data leaks — through HTTPS support, a built-in firewall, and multiple IP and account intrusion auto-blocking mechanisms.

- **Synology Drive** enables data synchronization and backup via web portal and desktop applications across Windows®, macOS®, and Linux® platforms. Intelliversioning saves historical versions while minimizing storage space use and supports on-demand data restoration.
- **Synology Office** includes Documents, Spreadsheets, and Slides. Its online editing environment allows multiple users to edit, comment, and share company data simultaneously — at no additional license fee.
- **Synology MailPlus** is a reliable mail server, accessible through an intuitive web-based client, that helps users to manage emails and increase productivity. MailPlus supports deployment in High-Availability clusters.
- **Synology Chat** enables instant conversations and optimizes team communications with powerful features including message encryption, pinning, forwarding, reminders, and

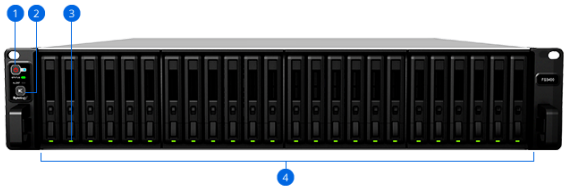
scheduling.

Notes:

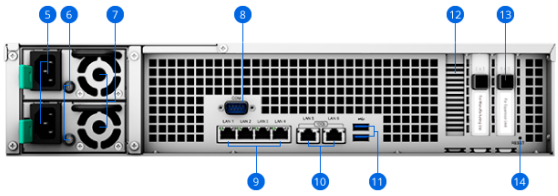
1. Performance figures may vary depending on environment, usage, and configuration
2. FS3600 can scale up to 72 drives with 2 x FX2421 or 48 drives with 2 x RX1222sas. Synology Expansion Units are sold separately.

Hardware Overview

Front



Rear



No.	Name	No.	Name
1.	Power button and indicator	8.	Console port
2.	Beep off button	9.	1GbE RJ-45 port
3.	Drive status indicator	10.	10GbE RJ-45 port
4.	Drive tray	11.	USB 3.0 port
5.	Power port	12.	PCIe expansion slot
6.	PSU indicator	13.	Expansion port
7.	PSU fan	14.	Reset button

Technical Specifications

Hardware

CPU	
CPU Model	Intel Xeon D-1567
CPU Quantity	1
CPU Core	12
CPU Architecture	64-bit
CPU Frequency	2.1 (base) / 2.7 (turbo) GHz
Hardware Encryption Engine	Yes

Memory	
System Memory	16 GB DDR4 ECC RDIMM
Memory Module Pre-installed	16 GB (16 GB x 1)
Total Memory Slots	4
Maximum Memory Capacity	128 GB (32 GB x 4)
Notes	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.

Storage	
Drive Bays	24
Maximum Drive Bays with Expansion Unit	72 (FX2421 × 2)
Drive Type	• 2.5" SAS SSD* • 2.5" SAS HDD* • 2.5" SATA SSD
Hot Swappable Drive	Yes
Notes	2.5" SAS HDD and 2.5" SAS SSD only indicate the drive types that may be compatible with Synology devices. For supported drive models, please refer to the device's compatibility list.

External Ports	
RJ-45 1GbE LAN Port	4
RJ-45 10GbE LAN Port	2
USB 3.2 Gen 1 Port	2
Expansion Port	1

PCIe	
PCIe Expansion	1 x Gen3 ×8 slot (x8 link)

Appearance	
Form Factor (RU)	2U
Size (Height x Width x Depth)	88 mm x 482 mm x 724 mm
Weight	14.9 kg
Rack Installation Support	4-post 19" rack (Synology Rail Kit - RKS-02)
Notes	The rail kit is sold separately

Others	
System Fan	80 mm x 80 mm x 32 mm x 4 pcs
AC Input Power Voltage	100V to 240V AC
Power Frequency	50/60 Hz, Single Phase

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
Maximum Operating Altitude	5,000 m

General 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
Maximum Internal Volume Number	256
SSD Read/Write Cache (Determining cache size)	Yes
Supported RAID Type	RAID F1,Basic,JBOD,RAID 0,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. • When Peta Volume is enabled, validated services and packages are required. Please refer to this article for more information on limitations.

File System	
Internal Drives	Btrfs,ext4
External Drives	Btrfs,ext4,ext3,FAT32,NTFS,HFS+,exFAT

File Services	
File Protocol	SMB,AFP,NFS,FTP,WebDAV,Rsync
Maximum Number of SMB Connections (FSCT-Based)	2,700
Windows Access Control List (ACL) Integration	Yes
NFS Kerberos Authentication	Yes

Account & Shared Folder	
Maximum Local User Accounts	10,240
Maximum Local Groups	512
Maximum Shared Folder	512
Maximum Shared Folder Sync Tasks	32

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 2022, Windows Server 2019, Windows Server 2016
Citrix XenServer	XenServer 8, Citrix Hypervisor 8.2 LTSR CU1
OpenStack	Cinder

Security
Firewall, encryption shared folder, SMB encryption, FTP over SSL/TLS, SFTP, rsync over SSH, login auto block, Let's Encrypt support, HTTPS (customizable cipher suite)

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.

Packages and Applications

Synology AI Console	
Centralize AI management with flexible configurations for AI model integration, user access control, data privacy, usage policies, and resource allocation	
Third-Party AI Model Integration	v
Maximum De-Identification Rate	2,700 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 Drive	
Synchronizes files across Windows®, macOS®, Linux®, Android™ and iOS. The built-in cross-platform portal allows access to data anytime and anywhere	
Maximum Number of Users	5,000
Maximum Number of Hosted Files	50,000,000 (applies to files indexed or hosted by Synology Drive. For file access through other standard protocols, refer to the File Services section above)

File Station

Provides virtual drives, remote folders, Windows® ACL editor, compression/extraction of archived files, bandwidth control for specific users/groups, creation of sharing links, and transfer logs

Hybrid Share

Synchronize data across multiple sites for fast and efficient multi-site teamwork. Powered by Synology C2 Storage, Hybrid Share requires purchase of a monthly or annual subscription

SAN Manager

Maximum iSCSI Target Number	256
Maximum LUN	512
LUN Clone/Snapshot, Windows ODX	Yes

Virtual Machine Manager

Recommended Virtual Machine Instances	24 (Learn more)
Recommended Virtual DSM Number (Licenses required)	24 (including 1 Free License)

Hyper Backup

Supports local backup, network backup, and data backup to other servers and public clouds, including C2 Storage

Snapshot Replication

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

Synology High Availability

Reduces service downtime by combining two identical NAS into a high-availability cluster

Synology Chat	
Maximum Number of Users	600

Synology Office	
Maximum Number of Users	4,800

Synology MailPlus / MailPlus Server	
A secure, reliable, and private mail solution featuring high-availability, load balancing, security, and filtering options	
Free Email Accounts	5 (Additional accounts require purchase of licenses)
Maximum Number of Users	5,800

Surveillance Station	
Default Licenses	2 (Additional cameras require purchase of licenses)
Suggested Maximum IP Cameras and Total FPS (H.264)	• 1080p: 160 channels, 3840 FPS • 3M: 160 channels, 1600 FPS • 5M: 120 channels, 1200 FPS • 4K: 80 channels, 800 FPS
Suggested 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

Central Management System
Provides a single interface to manage and monitor multiple Synology NAS

VPN Server	
Maximum Connections	32

Other packages
Additional 3rd-party packages are available in the Package Center

Environment & Packaging

Environment safety
RoHS Compliant

Packaging Content
• Main Unit X 1 • Accessory Pack X 1 • AC Power Cord X 2 • Quick Installation Guide X 1

Optional Accessories
• DDR4 ECC RDIMM: D4RD-2666-16G/D4ER02-32G • Expansion Units: FX2421*/RX1222sas • Enterprise Series 2.5" SATA SSD: SAT5200 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. • Expansion Unit FX2421 can only be used with identical expansion units.

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

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