HAS5300-12T

Brand: Synology
Product Code: HAS5300-12T
Availability: 10
Weight: 720.00g
Dimensions: 26.10mm x 101.85mm x 147.00mm
Call for Price:

Short Description

Synology HAS5300 HAS5300-12T 12 TB Hard Drive - 3.5" Internal - SAS 12Gb/s SAS

Description

Engineered for top performance and reliability in Synology systems

Unmatched integration with DSM and Synology hardware enable HAS5300 SAS hard drives to reliably deliver class-leading performance in enterprise deployments. HAS5300 drives have passed 200,000 hours of rigorous testing on Synology hardware, feature a 2.5M-hour MTBF, and are covered by Synology's 5-year limited warranty.

Performance

Up to 281 MB/s sustained data transfer

Optimization

Up to 27% faster drive repair in Synology NAS

Durability

Rated for 2.5 million hours MTBF

Updates

One-click drive firmware updates through DSM

Enterprise-ready

The HAS5300 series drives leverage the low-latency SAS protocol. When paired with high-performance and highly scalable Synology HD, SA, or UC series solutions, they ensure that mission-critical workloads always have access to dependable and fast storage.

Back to peak performance faster

Building on two decades of storage expertise, Synology HAS5300 drives run on firmware optimized for critical workloads that matter. They allow Synology systems to repair degraded RAID arrays up to 27% faster than similar-class and capacity drives.

Storage that stands the test of time

Validation

Rigorous tests and compatibility verification ensure maximum reliability on Synology systems, even while handling the most extreme workloads.

Synology Enterprise Series SAS drives undergo over 1,000 stress test cycles and and more than 200,000 hours of cumulative testing to ensure maximum reliability Stress tests1,000+cycles

Cumulative testing200K+hours

One-click firmware upgrades

Automatic firmware update notifications and one-click installation through DSM minimize maintenance workload and reduce the chance of oversights.

Dependable

A 2.5 million-hour MTBF, support for up to 550 TB per year workloads, and persistent write cache technology come together to safeguard data integrity.

Engineered for Demanding Workloads in Enterprise Environments

Synology HAS5300 is designed to meet the capacity, efficiency, and reliability needs of modern enterprise deployments. Built to handle workloads up to 550 TB per year, it empowers host systems to serve large pools of concurrent clients. With a 2.5 million-hour MTBF1 and backed by Synology's 5-year limited warranty2, HAS5300 meets the highest standards of dependability.

Highlights

• **Enterprise Durability** For demanding 24/7 environments, rated for 2.5 million hours MTBF and up to 550 TB per year workloads.

• **Tested for Maximum Reliability** Over 200,000 hours of stringent validation tests ensure maximum reliability on Synology SA, HD, and UC Series solutions.

• **Faster Array Rebuild** Up to 27% faster4 RAID array repair with firmware finetuned and optimized for performance.

• **Persistent Write Cache** Minimizes the chance of data corruption in the event of sudden power loss.

• **One-Stop Update** Firmware updates through DSM simplify maintenance.

Perfect for scalable and high-availability systems

Synology HAS5300 SAS hard drives are specifically developed and tested to provide

tight integration with our SA, HD, and UC lines of storage systems. Enabling your applications to take full advantage of the bandwidth available, they are the ideal choice for high-capacity, mission-critical workloads that require 24/7 operation. Optimized firmware and integration with Synology's DiskStation Manager (DSM) operating system running on Synology storage solutions result in up to 27% faster RAID array repair speeds4, greatly reducing the time the system spends in a degraded state.

Maximum durability and strong data protection

Rated for a 550 TB per year workload at a 2.5 million hours MTBF1, HAS5300 series drives are a safe and reliable choice for any critical data storage application. Persistent write cache technology bolsters data integrity protection and enhances overall write performance. Over 200,000 hours of validation and stress testing with Synology systems guarantee interoperability for each HAS5300 drive, ensuring maximum reliability on Synology solutions under even the heaviest workloads. Combined with backup and replication solutions running on Synology DSM, HAS5300 series SAS HDDs provide an additional layer of protection.

Integrated maintenance

Using Synology drives and host systems simplifies IT deployment. HAS5300 series drives are backed by Synology's 5-year limited warranty, providing you with long-term support for your entire system. Drive firmware update capability within DSM reduce required maintenance while increasing your systems' service availability.

Hardware Specifications

General	
Capacity	12 TB
Form Factor	3.5"
Interface	SAS 12 Gb/s
Performance	
Rotational Speed	7,200 rpm
Maximum Sustained Data Transfer Speed (Typ.)	254 MB/s
Power Consumption	
Active Idle (Typ.)	4.36 W
Random Read / Write 4KB Q1 (Typ.)	7.80 W
Notes	Power consumption may differ according to configurations and platforms.
Temperature	
Operating	5°C to 60°C 41°F to 140°F
Non-operating	40°C to 70°C 40°F to 158°F