

Synology SNV3510-400G (SNV3510-400G)

Synology SNV3510-400G - SSD - 400 GB - internal - M.2 22110 - PCIe 3.0 x4 (NVMe)

Synology SNV3000 series NVMe SSD is designed to handle tough caching workloads in a 24/7 multi-user environment. Its durable I/O performance boosts system responsiveness and speeds up handling of frequent access data, providing a streamlined storage experience while minimizing service disruptions to your Synology NAS.



Key Selling Points

- Consistently fast caching for 24/7 environments
- Data integrity safeguards
- Lifetime analytics based on actual workload
- Timely notifications
- Optimal use
- Effortless firmware updates
- Purpose-built for Synology NAS

Product Features

Consistently fast caching for 24/7 environments

Built for system cache, Synology SNV3000 series pushes up random I/O performance and reduces latency in demanding 24/7 environments. It offers durable caching with over 375,000/70,000 4K random read/write IOPS and a 988 TBW endurance rating, suitable for multimedia post-production and database applications.

Data integrity safeguards

Synology SNV3000 series integrates end-to-end data protection to safeguard data integrity over the entire transfer path. The SNV3500 comes with power loss protection circuit design, further preventing data corruption during an abnormal shutdown:Dedicated capacitors provide power to flush data-in-flight into NAND flash in a power loss event and firmware is designed to enable a correct restart on the next power-up.

Lifetime analytics based on actual workload

Full integration with Synology's DiskStation Manager (DSM) enables lifetime analytics for each SNV3000 series unit based on actual workloads.

Timely notifications

Plan further ahead for uninterrupted system performance and longevity with timely notifications.

Optimal use

Easy monitoring allows you to make optimal use of each SSD.

Effortless firmware updates

Synology DSM keeps your drives up to date automatically. No need for separate maintenance sessions.

Purpose-built for Synology NAS

Synology SNV3000 series is thoroughly tested for compatibility with systems following each engineering change, while firmware and component changes are strictly managed. Intensive I/O stress, power cycling, and temperature trials ensure that all products meet strictest standards for quality and reliability.

Main Specifications

Product Description	Synology SNV3510-400G - SSD - 400 GB - PCIe 3.0 x4 (NVMe)
Type	Solid state drive - internal
Capacity	400 GB
Form Factor	M.2 22110
Interface	PCIe 3.0 x4 (NVMe)
Features	End-to-end data protection, NVM Express (NVMe), Power Loss Protection (PLP)
Dimensions (WxDxH)	22 mm x 110 mm x 4.5 mm
Manufacturer Warranty	5-year warranty

Extended Specification

General

Device Type	Solid state drive - internal
Capacity	400 GB
Form Factor	M.2 22110
Interface	PCIe 3.0 x4 (NVMe)
Features	End-to-end data protection, NVM Express (NVMe), Power Loss Protection (PLP)
Width	22 mm
Depth	110 mm
Height	4.5 mm

Performance

SSD Endurance	491 TB
Internal Data Rate	3000 MBps (read) / 750 MBps (write)
Maximum 4KB Random Write	45000 IOPS
Maximum 4KB Random Read	225000 IOPS

Reliability

MTBF	1,800,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	1 per 10 ¹⁷

Expansion & Connectivity

Compatible Bay	M.2 22110
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Power

Power Consumption	4 Watt (read) 3.6 Watt (write) 1.6 Watt (idle)
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Miscellaneous

Compliant Standards	VCCI, BSMI, FCC, RoHS, KC, EAC, RCM, UKCA
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Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	70 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	85 °C

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