

Product Specifications

SPU7200D-7680G

Synology

Hardware Specifications

General	
Capacity	7.68 TB
Form Factor	2.5" 15mm
Interface	NVMe PCIe 4.0 ×4 Single Port x4 lanes/Dual Port x2 lanes
Security	SED (AES-256 Encryption, TCG Opal)

Performance	
Sustained Sequential read (128 KB, QD32)	7,000 MB/s
Sustained Sequential write (128 KB, QD32)	4,000 MB/s
Sustained Random Read (4KB, QD64)	1,250,000 IOPS
Sustained Random Write (4KB, QD64)	130,000 IOPS
Notes	<ul style="list-style-type: none"> • Performance specifications represent single-unit SSD performance results obtained from Synology's testing environment; actual performance may vary according to the host system's hardware and software setup. • The specifications have undergone thorough review and verification by Synology to ensure they meet the performance demands and compatibility standard of each Synology system while providing high reliability. • All performance measurements refer to sustained performance achieved in a steady state, as defined by test specifications in accordance with the Storage Networking Industry Association (SNIA). • Synology reserves the right to replace SSD modules with components from different suppliers based on product life cycle status and supply availability. All replacements are rigorously tested to the same standards to ensure equivalent compatibility, stability, and performance.

Endurance and Reliability

Terabytes Written (TBW)*	14016 TB
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Power Loss Protection	v
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Warranty*	5 Years
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Notes

- The TBW specifications denote the baseline endurance levels for Synology SSDs and are calculated using the JESD219A enterprise workload.
- 5-year limited warranty provides coverage until the end of the warranty period or until the endurance usage of the drive has been reached, whichever comes first.
[\(Learn more\)](#)

Power Consumption

Active Read (Typ.)	15.1 W
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Active Write (Typ.)	15 W
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Idle	5.58 W
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Notes

Power consumption may differ according to configurations and platforms.

Temperature

Operating Temperature	0°C to 70°C (32°F to 158°F)
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Storage Temperature	-40°C to 85°C (-40°F to 185°F)
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Compatibility

Applied Models

- [SPU7200D-1920G](#)
 - [SPU7200D-3840G](#)
 - [SPU7200D-7680G](#)
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