

Product Specifications

SAT5221-480G



Hardware Specifications

General	
Capacity	480 GB
Form Factor	2.5" 7mm
Interface	SATA 6 Gb/s
Performance	
Sustained Sequential read (128 KB, QD32)	500 MB/s
Sustained Sequential write (128 KB, QD32)	500 MB/s
Sustained Random Read (4KB, QD32)	90,000 IOPS
Sustained Random Write (4KB, QD32)	30,000 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).
Endurance and Reliability	
Terabytes Written (TBW)*	>900 TB
Power Loss Protection	v

Warranty*	5 Years
Notes	<ul style="list-style-type: none">• 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)• The TBW specifications denote the baseline endurance levels for Synology SSDs and are calculated using the JESD219A enterprise workload.

Power Consumption

Active Read (Typ.)	3 W
Active Write (Typ.)	3.5 W
Idle	1.2 W
Notes	Power consumption may differ according to configurations and platforms.

Temperature

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

Compatibility

Applied Models

- [SAT5210-7000G](#)
- [SAT5221-480G](#)
- [SAT5221-960G](#)
- [SAT5221-1920G](#)
- [SAT5221-3840G](#)