

Controller

PS5008-E8

Capacity ¹	128GB	256GB	512GB	1TB
Interface	PCIe Gen3x2 NVMe 1.2			
Form Factor	M.2 2280/2242, HHHL			
NAND Flash	3D TLC			
Performance (Up to)^{2,3}				
Sequential Read	1500 MB/s	1600 MB/s	1600 MB/s	1600 MB/s
Sequential Write	450 MB/s	850 MB/s	1000 MB/s	1100 MB/s
4K Random Read	90K IOPS	180K IOPS	230K IOPS	240K IOPS
4K Random Write	100K IOPS	150K IOPS	160K IOPS	180K IOPS
Power				
Supply Voltage	M.2 3.3V \pm 5; HHHL 12V \pm 5; U.2 12V \pm 5			
Max (Average)	2800 mW	3200 mW	3400 mW	3900 mW
Active (Average) ⁴	<300 mW	<300 mW	<300 mW	TBA
Idle				
Low Power PS4 (L1.2)	2 mW	2 mW	2 mW	2 mW
Temperature				
Operating	0°C - 70°C			
Non-Operating	0°C - 85°C			
Advanced Features	<ul style="list-style-type: none"> • End-to-End Data Protection • Pyrite/OPAL Support • Thermal Monitoring • AHCI Support 			

¹ 1GB = 1,000,000,000 bytes² 1MB/s = 1,000,000 bytes / second³ Performance is based on Crystal Disk Mark 6.0.0, test size 1GiB, and test drive set as secondary⁴ Measured with MobileMark 2014