

Controller

PS5008-E8T

Capacity ¹	32GB	64GB	128GB	256GB	512GB
Interface	PCIe Gen3x2 NVMe 1.2				
Form Factor	M.2 2280/2230				
NAND Flash	3D TLC				
Performance (Up to)^{2,3,5}					
Sequential Read	380 MB/s	750 MB/s	1400 MB/s	1550 MB/s	1550 MB/s
Sequential Write	110 MB/s	240 MB/s	450 MB/s	850 MB/s	950 MB/s
4K Random Read	20K IOPS	45K IOPS	45K IOPS	90K IOPS	120K IOPS
4K Random Write	20K IOPS	50K IOPS	80K IOPS	120K IOPS	150K IOPS
Power					
Supply Voltage	M.2 3.3V ± 5; HHHL 12V ± 5; U.2 12V ± 5				
Max (Average)	1200 mW	1600 mW	2300 mW	2800 mW	2900 mW
Active (Average) ⁴	< 300 mW	< 300 mW	< 300 mW	< 300 mW	< 300 mW
Idle					
Low Power PS4 (L1.2)	2 mW	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"> • Power Loss Data Protection • End-to-End Data Protection • Thermal Monitoring 				

¹ 1GB = 1,000,000,000 bytes

² 1MB/s = 1,000,000 bytes / second

³ Performance is based on Crystal Disk Mark 6.0.0, test size 1GiB, and test drive set as secondary

⁴ Measured with MobileMark 2014

⁵ Host memory buffer enabled