

Controller

PS5008-E8T

Interface	NVMe PCIe Gen 3 x 2		
Form Factor	M.2 2280	M.2 2242	CFX
NAND Flash	3D TLC		
DRAM	Optional	Optional	DRAM-Less
Capacity ¹	128GB ~ 2048GB	128GB ~ 512GB	64GB ~ 512GB
Performance (Up to)^{2,3}			
Sequential Read	1600 MB/s	1600 MB/s	1550 MB/s
Sequential Write	1100 MB/s	1000 MB/s	950 MB/s
4K Random Read	240K IOPS	230K IOPS	230K IOPS
4K Random Write	180K IOPS	160K IOPS	180K IOPS
Power			
Supply Voltage	3.3V ± 5%	3.3V ± 5%	3.3V ± 5%
Max (Average)	TBD	TBD	TBD
Active (Average) ⁴	4000 mW	2900 mW	3100 mW
Idle	45 mW	50 mW	30 mW
Low Power PS4 (L1.2)	2 mW	2 mW	2 mW
Temperature			
Operating	0°C - 70°C -40°C - 85°C		
Non-Operating	-40°C - 85°C		
Advanced Features	• Self Encrypting Function(Optional): AES, TCG OPAL, TCG Pyrite • Intelligent FW Technology on Data Loss Protection : 1) Data Loss Protection End-to-End Data Protection (ETEDPP) 2) SmartFlush™ • Intelligent FW Technology on Data Loss Protection : 1) SmartECC™: Strong ECC + RAID ECC 2) SmartRefresh™ • Thermal Protection Mechanism • Support HMB(Host Memory Buffer) • Security Function(Optional): Write Protect, Quick Erase, Data Destroy		

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