

Controller

PS5008-E8T

Interface	NVMe PCIe Gen 3 x 2		
Form Factor	M.2 2280	M.2 2242	CFX™
NAND Flash	3D TLC		
Capacity ¹	128GB to 512GB	128GB to 512GB	64GB to 512GB
Performance² (up to)			
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 (up to)			
Supply Voltage	3.3V ± 5%	3.3V ± 5%	3.3V ± 5%
Active (Average)	4000mW	2900mW	3100mW
Idle	45mW	50mW	30mW
L1.2	2mW	2mW	2mW
Temperature			
Operating	0°C~70°C -40°C~85°C		
Non-Operating	-40°C~85°C		
Advanced Features	<ul style="list-style-type: none"> • Intelligent FW technology on Data loss Protection : <ol style="list-style-type: none"> 1) Data Loss Protection End to End Data Path Protection (ETEDPPP) 2) SmartFlush™ • Intelligent FW technology on Data Reliability <ol style="list-style-type: none"> 1) SamrtECC™: Strong ECC + RAID ECC 2) SmartRefresh™ • Thermal Protection Mechanism • Support HMB(Host Memory Buffer), CFX only • Security Function(Optional): Write Protect, Quick Erase 		

¹ 1GB = 1,000,000,000 bytes

² 1MB/s = 1,000,000 bytes / second