

SOLUTIONS

PS5018-E18DC

Product Series	EPR3750	EPM3750	EPM3760	EPM3790
Interface	PCIe 4.0 x4			
Form Factor	M.2 2280		M.2 22110	E1.S
NAND Flash	3D TLC		3D TLC	3D TLC
Capacity ⁽¹⁾	480GB - 1.92TB	480GB - 1.92TB	480GB - 3.84TB	480GB - 3.84TB
Performance ^(2,3)				
Sequential Read	6600 MB/s	5500 MB/s	5500 MB/s	6000 MB/s
Sequential Write	1400 MB/s	2000 MB/s	2000 MB/s	2000 MB/s
4K Random Read	640K IOPS	800K IOPS	800K IOPS	800K IOPS
4K Random Write	50K IOPS	55K IOPS	55K IOPS	55K IOPS
Quality of Service (99.99%)				
4K Random Read QD1 Latency	195 us	195 us	200 us	TBD
4K Random Write QD1 Latency	162 us	162 us	180 us	TBD
Reliability & Warranty				
DWPD ⁽⁴⁾	0.6	1	1	1
UBER	1 in 10 ¹⁶	1 in 10 ¹⁶	1 in 10 ¹⁶	1 in 10 ¹⁶
Power Consumption⁽⁵⁾				
Max	11 W	11.55 W	11.55 W	TBD
Idle	<2.7 W	<4.2 W	<4.2 W	TBD
Environmental				
Operating Temperature	0°C - 70°C	0°C - 70°C	0°C - 70°C	0°C - 70°C
Non-Operating Temperature	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C	-40°C - 85°C
Advanced Features				
<ul style="list-style-type: none"> - LDPC - Power Loss Data Protection (Only for EPM Series) - End-to-End Data Protection 				

⁽¹⁾ 1 GB = 1,000,000,000 bytes.

⁽²⁾ Sequential Performance is based on CrystalDiskMark 8.0.4, 1 GB range, QD=8, Thread=1, and test drive set as secondary.

⁽³⁾ Random Performance is based on IOMeter, 1 GB range, 4K data size, QD=128, 16 worker, 4K aligned.

⁽⁴⁾ the results of DWPD are obtained in compliance with JEDEC219A Standards.

⁽⁵⁾ Power consumption is measured during the sequential read and write operations performed by CrystalDiskMark with the conditions described in (2).



THE DATA WITHIN THIS SPECIFICATION IS SUBJECT TO CHANGE BY PHISON WITHOUT NOTICE. PERFORMANCE NUMBERS MAY VARY BASED ON SYSTEM CONFIGURATION AND TESTING CONDITIONS.

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