SOLUTIONS

PS3112-S12DC

Product Series	ESR1710	ESM1720	ESM1710	ESM1D10	ESR1750
Interface	SATA III 6Gb/s				
Form Factor	2.5"(7mm)				M.2 2280/22110
NAND Flash	3D TLC				3D TLC
Capacity[1]	1.92TB - 15.36TB	480GB - 1.92TB	3.84TB	7.68TB	480GB - 960TB
Performance [2,3]					
Sequential Read	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s
Sequential Write	550 MB/s	550 MB/s	550 MB/s	550 MB/s	480 MB/s
4K Random Read	97K IOPS	98K IOPS	98K IOPS	97K IOPS	98K IOPS
4K Random Write	20K IOPS	50K IOPS	37K IOPS	42K IOPS	20K IOPS
Quality of Service (99.99%)					
4K Random Read QD1 Latency	295 us	200 us	230 us	250 us	110 us
4K Random Write QD1 Latency	165 us	100us	100 us	100us	110 us
Reliability & Warranty					
DWPD[4]	0.4	1	1	1	0.5
UBER	1 in 10^{17}	1 in 10^{17}	1 in 10^{17}	1 in 10^{17}	1 in 10^{17}
Power Consumption[5]					
Max	5.4 W	3.6 W	3.7 W	4.1 W	3.3 W
Idle	<5 W	<1.3 W	<1.5 W	<1.6 W	<1.1 W
Environmental					
Operating Temperature	0°C - 70°C				
Non-Operating Temperature	-40°C - 85°C				
Advanced Features					
- LDPC - Power Loss Data Protection - 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 JESD219A Standards.
[5] Power consumption is measured during the sequential read and write operations performed by CrystalDiskMark with the conditions described in (2).

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