

Solutions - S12DC - Mixed Workload

2.5"							
	Capacity ⁽¹⁾	240GB	480GB	960GB	1920GB	3840GB	7680GB
Performance ^(2,3)	Sequential Read	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s
	Sequential Write	450 MB/s	500 MB/s	500 MB/s	500 MB/s	500 MB/s	500 MB/s
	4K Random Read	96K IOPS	98K IOPS	95K IOPS	98K IOPS	98K IOPS	98K IOPS
	4K Random Write	75K IOPS	85K IOPS	80K IOPS	80K IOPS	80K IOPS	60K IOPS
Power Consumption ⁽⁴⁾	Max	2.9 W	3.5 W	3.8 W	4.4 W	5.1 W	5.4 W
	Idle	1.3 W	1.3 W	1.4 W	1.5 W	1.8 W	1.9 W
Latency	4K Random Read	120 us	110 us	130 us	130 us	130 us	140 us
	4K Random Write	35 us	25 us	25 us	25 us	25 us	25 us
Features							
	Interface	SATA III					
	NAND Flash	3D TLC					
	DWPD ⁽⁵⁾	3					
	UBER	1 in 10 ¹⁷					
	Operating Temperature	0°C - 70°C					
	Non-Operating Temperature	-40°C - 85°C					
Key Features							
	<ul style="list-style-type: none"> • LDPC • Power Loss Data Protection • End-to-End Data Protection 						

(1) 1 GB = 1,000,000,000 bytes.

(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.

(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.

(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).

(5) The results of DWPD are obtained in compliance with JESD219A Standards.



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Solutions - S12DC - Read Intensive

2.5"						
	Capacity ⁽¹⁾	480GB	960GB	1920GB	3840GB	7680GB
Performance ^(2,3)	Sequential Read	530 MB/s	530 MB/s	530 MB/s	530 MB/s	530 MB/s
	Sequential Write	430 MB/s	500 MB/s	500 MB/s	500 MB/s	500 MB/s
	4K Random Read	96K IOPS	98K IOPS	98K IOPS	98K IOPS	97K IOPS
	4K Random Write	36K IOPS	42K IOPS	50K IOPS	37K IOPS	42K IOPS
Power Consumption ⁽⁴⁾	Max	2.9 W	3.2 W	3.3 W	3.4 W	3.8 W
	Idle	1.3 W	1.3W	1.4 W	1.5 W	1.6 W
Latency	4K Random Read	115 us	115 us	115 us	120 us	145 us
	4K Random Write	25 us	25 us	25 us	25 us	25 us
Features						
	Interface	SATA III				
	NAND Flash	3D TLC				
	DWPD ⁽⁵⁾	1				
	UBER	1 in 10 ¹⁷				
	Operating Temperature	0°C - 70°C				
	Non-Operating Temperature	-40°C - 85°C				
Key Features						
	<ul style="list-style-type: none"> • LDPC • Power Loss Data Protection • End-to-End Data Protection 					

(1) 1 GB = 1,000,000,000 bytes.

(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.

(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.

(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).

(5) The results of DWPD are obtained in compliance with JESD219A Standards.



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Solutions - S12DC - High Capacity

2.5"					
	Capacity ⁽¹⁾	1920GB	3840GB	7680GB	15360GB
Performance ^(2,3)	Sequential Read	530 MB/s	530 MB/s	530 MB/s	530 MB/s
	Sequential Write	500 MB/s	500 MB/s	500 MB/s	500 MB/s
	4K Random Read	94K IOPS	97K IOPS	97K IOPS	94K IOPS
	4K Random Write	13K IOPS	20K IOPS	14K IOPS	10K IOPS
Power Consumption ⁽⁴⁾	Max	3.8 W	4.4 W	5.1 W	5.4 W
	Idle	1.4W	1.5 W	1.8 W	1.9 W
Latency	4K Random Read	135 us	130 us	140 us	165 us
	4K Random Write	55 us	40 us	55 us	65 us
Features					
	Interface	SATA III			
	NAND Flash	3D TLC			
	DWPD ⁽⁵⁾	>0.4			
	UBER	1 in 10 ¹⁷			
	Operating Temperature	0°C - 70°C			
	Non-Operating Temperature	-40°C - 85°C			
Key Features					
	<ul style="list-style-type: none"> • LDPC • Power Loss Data Protection • End-to-End Data Protection 				

(1) 1 GB = 1,000,000,000 bytes.

(2) Sequential Performance is based on FIO on Linux, 128K, with QD=32, 1 worker, and test drive set as secondary.

(3) Random Performance is based on FIO on Linux, 4K data size, QD=32, 1 worker, 4K aligned.

(4) Power consumption is measured during the sequential read/write and random read/write operations performed by iometer with the conditions described in (2)(3).

(5) The results of DWPD are obtained in compliance with JESD219A Standards.



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