





Computational Storage Drive CSD 2000 Series
Data Center Edition
Data Scale Edition


Data Center Edition			Data Scale Edition		
Form Factors	Physical Capacity	Endurance	Form Factors	Physical Capacity	Endurance
 	4TB	21.1PB TBW		8TB	9PB TBW
	8TB	41.1PB TBW		16TB	18PB TBW

Data Compression Ratio	Drive Edition	Drive Capacity (GB)	4KiB Random Read (kIOPS)	4KiB Random Write (kIOPS)	4KiB 70/30 Mixed R/W (kIOPS)	128KiB Seq Read (GB/s)	128KiB Seq Write (GB/s)
2:1	Data Center	3.2	630	480	450/190	2.9	2.2
		3.84	630	425	435/185	2.9	2.2
		6.4	730	525	475/200	2.9	2.2
		7.68	730	490	465/200	2.9	2.2
	Data Scale	7.68	435	245	260/110	3.0	1.9
		15.36	435	245	260/110	3.0	1.9
1:1	Data Center	3.2	675	150	230/100	2.9	2.1
		3.84	675	80	135/55	2.9	2.1
		6.4	750	190	295/125	2.9	2.3
		7.68	750	95	175/75	2.9	2.3
	Data Scale	7.68	460	35	65/25	3.0	1.2
		15.36	460	35	65/25	3.0	1.2

Test Server Configuration: Intel(R) Xeon(R) E5 2640 v3 CPU @ 2.60GHz

Test Kernel Version: 4.18.0-193.14.2.el8_2.x86_64

Form Factors	PCIe AIC & 2.5" U.2	Power	18Watt Typical Active 25Watt Maximum 12Watt Idle (Zero Exit Latency)
Interface	PCIe Gen3 x4 Low latency block storage device	Operating Temperature	50°C @ 200LFM (AIC) 35°C @ 200LFM (U.2)
NAND Media	3D TLC & 3D QLC	Temperature Protection	Thermal Throttling Enabled
Power Loss Protection	Yes	MTTF	2 Million Hours
Data Protection	End-to-End Protection ECC on all memories Full data-path CRC LDPC and die-level RAID protection	Compute Capability	Transparent Datapath Compression Accelerated Performance Extended Capacity

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