






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			
 	4TB	21.1PB TBW		8TB	10.0PB TBW		
	8TB	42.1PB TBW		16TB	20.0PB TBW		
Data Compression Ratio	Drive Edition	Drive Capacity (TB)	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	720	417	426/182	3.0	2.3
		3.84	720	385	415/175	3.0	2.3
		6.4	749	465	405/170	3.0	2.3
		7.68	749	430	405/170	3.0	2.3
	Data Scale	7.68	440	250	260/110	3.0	1.9
		15.36	565	325	350/150	3.0	1.9
1:1	Data Center	3.2	735	155	232/99	3.0	2.4
		3.84	735	82	142/60	3.0	2.4
		6.4	771	196	285/125	3.0	2.5
		7.68	771	100	186/79	3.0	2.5
	Data Scale	7.68	460	35	70/30	3.0	1.2
		15.36	600	45	85/35	3.0	1.3

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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