## KIOXIA

# The Future of Enterprise and Data Center Storage is EDSFF

NVMe SSD Solutions for HPE Solutions



## **KIOXIA EDSFF E3.S Offerings**

is here



#### KIOXIA CM7 Series Enterprise NVMe<sup>™</sup> SSD

- PCIe<sup>®</sup> Gen5 x4 (32 GT/s x4)
- NVMe<sup>™</sup> 2.0 specification compliant
- OCP Datacenter NVMe<sup>™</sup> SSD 2.0 supported
- 1.6 TB to 15.36 TB capacities
- 1 and 3 DWPD endurances



#### KIOXIA CD8P Series Data Center NVMe<sup>™</sup> SSD

- PCIe<sup>®</sup> Gen5 x4 (32 GT/s x4)
- NVMe<sup>™</sup> 2.0 specification compliant
- OCP Datacenter NVMe<sup>™</sup> SSD 2.0 supported
- 1.6 TB to 15.36 TB capacities
- 1 and 3 DWPD endurances

## **Models / Specifications**

Family	Endurance	Platform	Capacity	Hewlett Packard Enterprise Option Kit SKU	Max Random Read IOPS (4KiB)	Max Random Write IOPS (4KiB)	Max Sequential Read (MiB/s)	Max Sequential Write (MiB/s)
	Read Intensive 1 DWPD (for 5 years)	ProLiant HPC ClusterStor 3PAR Alletra Raider	3,840	P61179-B21	2,700,000	310,000	13,351	6,437
			7,680	P61183-B21	2,450,000	300,000	13,351	6,437
CM7			15,360	P61187-B21	2,000,000	260,000	13,351	5,055
E3.S/EDSFF	Mixed Use 3 DWPD (for 5 years)		3,200	P61191-B21	2,700,000	600,000	13,351	6,437
			6,400	P61195-B21	2,450,000	550,000	13,351	6,437
Family	Endurance	Platform	Capacity	Hewlett Packard Enterprise Option Kit SKU	Max Random Read IOPS (4KiB)	Max Random Write IOPS (4KiB)	Max Sequential Read (MiB/s)	Max Sequential Write (MiB/s)
Family	Endurance	Platform	Capacity 1,920	Enterprise Option	Read IOPS	Write IOPS	Sequential Read	Sequential Write
Family	Read Intensive	Platform		Enterprise Option Kit SKU	Read IOPS (4KiB)	Write IOPS (4KiB)	Sequential Read (MiB/s)	Sequential Write (MiB/s)
Family		Platform	1,920	Enterprise Option Kit SKU P69234-B21	Read IOPS (4KiB) 1,600,000	Write IOPS (4KiB) 150,000	Sequential Read (MiB/s) 11,444	Sequential Write (MiB/s) 3,338
CD8P	Read Intensive 1 DWPD	Platform	1,920 3,840	Enterprise Option Kit SKU P69234-B21 P69237-B21	Read IOPS (4KiB) 1,600,000 1,900,000	Write IOPS (4KiB) 150,000 200,000	Sequential Read (MiB/s) 11,444 11,444	Sequential Write (MiB/s)   3,338   5,245
	Read Intensive 1 DWPD		1,920 3,840 7,680	Enterprise Option Kit SKU P69234-B21 P69237-B21 P69239-B21	Read IOPS (4KiB)   1,600,000   1,900,000   2,000,000	Write IOPS (4KiB) 150,000 200,000 200,000	Sequential Read (MiB/s) 11,444 11,444 11,444	Sequential Write (MiB/s) 3,338 5,245 5,245
CD8P	Read Intensive 1 DWPD (for 5 years) Mixed Use		1,920 3,840 7,680 15,360	Enterprise Option Kit SKU P69234-B21 P69237-B21 P69239-B21 P69546-B21	Read IOPS (4KiB)   1,600,000   1,900,000   2,000,000	Write IOPS (4KiB)   150,000   200,000   200,000   200,000	Sequential Read (MiB/s) 11,444 11,444 11,444 11,444	Sequential Write (MiB/s) 3,338 5,245 5,245 5,245 5,054
CD8P	Read Intensive 1 DWPD (for 5 years)		1,920 3,840 7,680 15,360 1,600	Enterprise Option Kit SKU P69234-B21 P69237-B21 P69239-B21 P69546-B21 P69544-B21	Read IOPS (4KiB)   1,600,000   1,900,000   2,000,000   2,000,000   1,600,000	Write IOPS (4KIB)   150,000   200,000   200,000   200,000   300,000	Sequential Read (Mi8/s) 11,444 11,444 11,444 11,444 11,444	Sequential Write (MIB/s) 3,338 5,245 5,245 5,245 5,054 3,338

#### Please contact your sales rep for more options not shown here:

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### Where to Find More on EDSFF?

<b>KIOXIA EDSFF</b>	Solutions	https://americas.kioxia.com/en-us/business/ssd/solution/edsff.html	
Open Compute NVMe SSD spe	Project Datacenter ecification	https://www.opencompute.org/wiki/Storage#Documents	
SNIA SSD Form	n Factors Web Page	https://www.snia.org/forums/cmsi/knowledge/formfactors	
E1.S & E1.L	SNIA SFF-TA-1006 – Enterpris SNIA SFF-TA-1007 – Enterpris SNIA SFF-TA-1009 – Enterpris SNIA REF-TA-1012 – Pin Assig	Agnostic Multi-lane High Speed Connector se and Datacenter 1U Short Device Form Factor (E1.S) se and Datacenter 1U Long Device Form Factor (E1.L) se and Datacenter Standard Form Factor Pin and Signal Specification gnment Reference for SFF-TA-1002 Connectors Characterization Specification for EDSFF Devices	
E3.S & E3.L	SNIA SFF-TA-1008 – Enterpris SNIA SFF-TA-1009 – Enterpris	Agnostic Multi-Lane High Speed Connector se and Datacenter Device Form Factor (E3) se and Datacenter Standard Form Factor Pin and Signal Specification gnment Reference for SFF-TA-1002 Connectors	

#### **KIOXIA**

In every mention of a KIOXIA product: Definition of capacity - KIOXIA Corporation defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000 bytes and a terabyte (TB) as 1,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2<sup>30</sup> bytes = 1,073,741,824 bytes and 1TB = 2<sup>40</sup> bytes = 1,099,511,627,776 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

Drive Write(s) Per Day. One full drive write per day means the drive can be written and re-written to full capacity once a day, every day, for the specified lifetime. Actual results may vary due to system configuration, usage and other factors.

Images may differ from the actual products and services.

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