

KIOXIA + Hewlett Packard Enterprise



- Many years of collaborating on storage solutions
- NVMe™ and SAS SSDs qualified across HPE server and storage platforms
- KIOXIA SSDs are VMware® vSAN™ certified for virtualized environments
- New EDSFF E3.S NVMe SSDs for latest PCIe® 5.0 ProLiant Gen11 servers



Fast

High-performance SSDs accelerate server and storage solutions to new heights



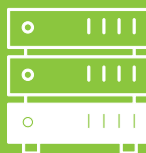
Secure

Digitally signed firmware for added security and assurance



Flexible

Common flash used across the family to provide supply flexibility as customer mix changes



Efficient

Endurance options to match SSDs with application workloads



KIOXIA PM7 Series Enterprise SAS SSD

PM7 Series Enterprise 24G SAS SSDs are designed for enterprise server and storage environments providing uncompromising performance and reliability.



KIOXIA RM7 Series Value SAS SSD

RM7 Series 12 Gbit/s value SAS SSDs are priced to replace SATA in servers, delivering improved performance and reliability, with no change to the server infrastructure.



KIOXIA CM7 Series Enterprise NVMe™ SSD

CM7 Series is a dual port drive that brings PCIe® 5.0 performance to enterprise NVMe SSDs along with high reliability and availability. They are also compatible to single port use.



KIOXIA CD8 and CD8P Series Data Center NVMe™ SSDs

As a SATA replacement CD Series SSDs deliver PCIe 4.0 (CD8) and PCIe 5.0 (CD8P) performance in 2.5-inch and E3.S form factors respectively. They are available as single port drives with 1 and 3 DWPD endurance options.

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Family/ Endurance ^{1, 2}	Platform	Capacity ² (GB)	Hewlett Packard Enterprise Option Kit SKU	Max Random Read IOPS (4KiB) ¹²	Max Random Write IOPS (4KiB) ¹²	Max Sequential Read (MiB/s) ¹²	Max Sequential Write (MiB/s) ¹²	Min Terabytes Written ³
RM7 Read-Intensive SIE 1 DWPD for 5 Years	ProLiant	960	P36997-B21	180,000	40,000	1,049	811	1,752
		960	P40506-B21	180,000	40,000	1,049	811	1,752
		1,920	P36999-B21	190,000	40,000	1,049	1,001	3,504
		1,920	P40507-B21	190,000	40,000	1,049	1,001	3,504
		3,840	P37001-B21	190,000	40,000	1,049	1,001	7,008
		3,840	P40508-B21	190,000	40,000	1,049	1,001	7,008
		7,680	P37003-B21	190,000	40,000	1,049	1,001	14,016
		7,680	P40509-B21	190,000	40,000	1,049	1,001	14,016
RM7 Mixed-Use SIE 3 DWPD for 5 Years		960	P37005-B21	180,000	40,000	1,049	811	5,256
		960	P37009-B21	180,000	40,000	1,049	811	5,256
		960	P40510-B21	180,000	40,000	1,049	811	5,256
		1,920	P37011-B21	190,000	55,000	1,049	1,001	10,512
		1,920	P37013-B21	190,000	55,000	1,049	1,001	10,512
		1,920	P40511-B21	190,000	55,000	1,049	1,001	10,512
		3,840	P37017-B21	190,000	55,000	1,049	1,001	21,024
		3,840	P40512-B21	190,000	55,000	1,049	1,001	21,024
PM7 Read-Intensive SED FIPS 1 DWPD for 5 Years	ProLiant 3PAR (Legacy) Alletra MSA	3,840	P63875-B21	720,000	155,000	4,005	3,481	7,008
PM7 Mixed-Use SED FIPS 3 DWPD for 5 Years		1,600	P63871-B21	720,000	320,000	4,005	3,242	8,760
CD8 Read-Intensive SIE 1 DWPD for 5 Years	ProLiant	960	P64842-B21	1,000,000	80,000	6,866	1,717	1,752
		1,920	P64843-B21	1,250,000	150,000	6,866	3,338	3,504
		1,920	P64844-B21	1,250,000	150,000	6,866	3,338	3,504
		3,840	P64845-B21	1,250,000	195,000	6,866	3,624	7,008
		3,840	P64846-B21	1,250,000	195,000	6,866	3,624	7,008
		7,680	P64847-B21	1,150,000	200,000	6,771	5,722	14,016
		7,680	P64848-B21	1,150,000	200,000	6,771	5,722	14,016
		15,360	P69255-B21	1,050,000	195,000	6,294	5,722	28,032
CD8 Mixed-Use SIE 3 DWPD for 5 Years		800	P64999-B21	1,000,000	160,000	6,866	1,717	4,380
		1,600	P65003-B21	1,250,000	310,000	6,866	3,338	8,760
		1,600	P65007-B21	1,250,000	310,000	6,866	3,338	8,760
		3,200	P65011-B21	1,250,000	340,000	6,866	3,624	17,520
		3,200	P65015-B21	1,250,000	340,000	6,866	3,624	17,520
		6,400	P65019-B21	1,150,000	380,000	6,771	5,722	35,040
		6,400	P65023-B21	1,150,000	380,000	6,771	5,722	35,040
		1,920	P69234-B21	1,600,000	150,000	11,444	3,338	3,504
CD8P E3.S/EDSFF Read-Intensive SIE 1 DWPD for 5 Years	ProLiant XD685	3,840	P69237-B21	1,900,000	200,000	11,444	5,245	7,008
		7,680	P69239-B21	2,000,000	200,000	11,444	5,245	14,016
		15,360	P69546-B21	2,000,000	200,000	11,444	5,054	28,032
		1,600	P69241-B21	1,600,000	300,000	11,444	3,338	8,760
CD8P E3.S/EDSFF Mixed-Use SIE 3 DWPD for 5 Years		3,200	P69243-B21	1,900,000	400,000	11,444	5,245	17,520
		6,400	P69245-B21	2,000,000	400,000	11,444	5,245	35,040
		1,920	P61019-B21	2,000,000	155,000	13,351	3,338	3,504
CM7 U.3 Read-Intensive SED FIPS 140-3 1 DWPD for 5 Years	ProLiant HPC ClusterStor (E1000) 3PAR (Legacy) Alletra	3,840	P61027-B21	2,700,000	310,000	13,351	6,437	7,008
		7,680	P31035-B21	2,450,000	300,000	13,351	6,437	14,016
		1,920	P63829-B21	2,000,000	155,000	13,351	3,338	3,504
		3,840	P63833-B21	2,700,000	310,000	13,351	6,437	7,008
CM7 U.3 Read-Intensive SIE 1 DWPD for 5 Years		7,680	P63837-B21	2,450,000	300,000	13,351	6,437	14,016
		15,360	P63841-B21	2,400,000	300,000	12,398	6,676	28,032
CM7 U.3 Mixed-Use SED FIPS 140-3 3 DWPD for 5 Years	ProLiant HPC ClusterStor (E1000) 3PAR (Legacy) Alletra	1,600	P61043-B21	2,000,000	310,000	13,351	3,338	8,760
		3,200	P61051-B21	2,700,000	600,000	13,351	6,437	17,520
		6,400	P61059-B21	2,450,000	550,000	13,351	6,437	35,040
CM7 U.3 Mixed-Use SIE 3 DWPD for 5 Years		1,600	P63845-B21	2,000,000	310,000	13,351	3,338	8,760
		3,200	P63849-B21	2,700,000	600,000	13,351	6,437	17,520
		6,400	P63853-B21	2,450,000	550,000	13,351	6,437	35,040

Family/ Endurance ^{1,2}	Platform	Capacity ² (GB)	Hewlett Packard Enterprise Option Kit SKU	Max Random Read IOPS (4KiB) ^{3,5}	Max Random Write IOPS (4KiB) ^{3,5}	Max Sequential Read (MiB/s) ^{3,5}	Max Sequential Write (MiB/s) ^{3,5}	Min Terabytes Written ⁶
CM7 E3.S/EDSFF Read-Intensive SED FIPS 140-3 1 DWPD for 5 Years	ProLiant XD85	7,680	P70674-B21	2,450,000	300,000	13,351	6,437	14,016
		15,360	P79122_B21	2,000,000	260,000	12,398	5,054	28,032
CM7 E3.S/EDSFF Read-Intensive SIE 1 DWPD for 5 Years		3,840	P61179-B21	2,700,000	310,000	13,351	6,437	7,008
		7,680	P61183-B21	2,450,000	300,000	13,351	6,437	14,016
		15,360	P61187-B21	2,000,000	260,000	12,398	5,054	28,032
CM7 E3.S/EDSFF Mixed-Use SED FIPS 140-3 3 DWPD for 5 Years	ProLiant XD85	3,200	P70669-B21	2,700,000	600,000	13,351	6,437	17,520
		6,400	P70672-B21	2,450,000	550,000	13,351	6,437	35,040
CM7 E3.S/EDSFF Mixed-Use SIE 3 DWPD for 5 Years		3,200	P61191-B21	2,700,000	600,000	13,351	6,437	17,520
		6,400	P61195-B21	2,450,000	550,000	13,351	6,437	35,040

Performance Operational Conditions:

	Sequential Read	Sequential Write	Random Read	Random Write
RM7 Series	64KiB, QD=16	64KiB, QD=16	4KiB, QD=32	4KiB, QD=16
PM7 Series	128KiB, QD=32	128KiB, QD=32	4KiB, QD=256	4KiB, QD=32
CM7 Series	128KiB, QD=32	128KiB, QD=32	4KiB, QD=512	4KiB, QD=32
CD8 Series	128KiB, QD=32	128KiB, QD=32	4KiB, QD=256	4KiB, QD=32
CD8P Series	128KiB, QD=32	128KiB, QD=32	4KiB, QD=256	4KiB, QD=32

NOTES:

1. DWPD: Drive Writes 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.

2. Definition of capacity: KIOXIA defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ bytes = 1,073,741,824 bytes and 1TB = 2⁴⁰ 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.

3. A kilobyte (KiB) means 2¹⁰, or 1,024 bytes and a mebibyte (MiB) means 2²⁰, or 1,048,576 bytes. IOPS is Input Output Per Second (or the number of I/O operations per second).

4. Measured using worst-case 4KiB random write workload.

5. Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.

6. Data Security

- Sanitize Instant Erase (SIE) option models support Cryptographic Erase, which is a standardized feature defined by the technical committee (SCSI) of INCITS (the Inter National Committee for Information Technology Standards).

- FIPS SED optional models utilize security modules designed to comply with FIPS 140-2 or 140-3 which defines security requirements for cryptographic module by NIST (National Institute of Standards and Technology). For the latest validation status, please contact us in each region's website, <https://www.kioxia.com/>.

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