

Dell + KIOXIA = Better Together



- Together: 20+ years of storage collaboration*
- SSDs shipping across all of Dell's major server and storage product lines
- All KIOXIA SSDs are VMware vSAN™ certified for your virtualized data center environments
- Introducing the new Enterprise and Datacenter Standard Form Factor (EDSFF) E3.S PCIe® 5.0 NVMe™ SSD for use in select Dell PowerEdge™ 16G servers



Upgrade your application performance in Dell PowerEdge™ servers with value SAS (KIOXIA RM7 Series) and data center NVMe™ (KIOXIA CD8 and CD8P) SSDs.



SATA performance roadmap has ended



Competitively priced to SATA



Better performance, latency and capacities



Embraces more architectures/management



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 12Gb/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

Built on KIOXIA BiCS FLASH™ technology, the CM7 Series is a dual port drive that brings PCIe 5.0 performance to enterprise NVMe SSDs in both a 2.5" and E3.S form factor. Offering high reliability, 1 or 3 DWPD, and up to 30.72 TB³ capacities



KIOXIA CD8 and CD8P Series Data Center NVMe™ SSDs

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

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Family	DWPD ^{*1} (for 5 years)	Platform	Data Security & Encryption Options ^{*2}	Capacity (GB) ^{*3}	Dell P/N	Random Read IOPS ^{*4 *5 *6}	Random Write IOPS ^{*4 *5 *6}	Seq. Read MB/s ^{*6}	Seq. Writes MB/s ^{*6}	Min. TBW				
RM7	Read Intensive 1 DWPD	PowerEdge	SED	960	6RNXC	180,000	40,000	1,049	811	1,752				
				1,920	86XW7	190,000	40,000	1,049	1,001	3,504				
	Mixed Use 3 DWPD			7,680	D480G	190,000	40,000	1,049	1,001	14,016				
				1,920	59XF2	190,000	55,000	1,049	1,001	10,512				
PM7	Read Intensive 1 DWPD*	PowerEdge Isolon	FIPS	3,840	MOJVN	190,000	55,000	1,049	1,001	21,024				
				3,840	YTVTF	720,000	155,000	4,005	3,481	7,008				
				7,680	HCTYM	720,000	175,000	4,005	3,910	14,016				
				1,920	6K35K	720,000	155,000	4,005	3,242	3,504				
	Mixed Use 3 DWPD	PowerScale PowerMax PowerStore XtremIO	FIPS	3,840	MTOR5	720,000	155,000	4,005	3,481	7,008				
				7,680	7N1WT	720,000	175,000	4,005	3,910	14,016				
				800	81G77	720,000	320,000	4,005	3,242	4,380				
			ISE	1,600	G4NY4	720,000	340,000	4,005	3,481	8,760				
				3,200	RGP9J	720,000	355,000	4,005	3,910	17,520				
				800	X96H8	720,000	320,000	4,005	3,242	4,380				
CD8	Read Intensive 1 DWPD	PowerEdge	ISE	960	YNGYD	1,000,000	80,000	6,866	1,717	1,752				
				1,920	NNKCT	1,250,000	150,000	6,866	3,338	3,504				
				3,840	N1MK1	1,250,000	195,000	6,866	3,624	7,008				
				7,680	MXD8J	1,150,000	200,000	6,771	5,722	14,016				
	Mixed Use 3 DWPD			800	30HYT	1,000,000	160,000	6,866	1,717	4,380				
				1,600	16MJ9	1,250,000	310,000	6,866	3,338	8,760				
				3,200	MXM95	1,250,000	340,000	6,866	3,624	17,520				
				CM7	Read Intensive 1 DWPD	PowerEdge Isolon PowerScale PowerMax PowerStore	FIPS	1,920	JPK03	200,000	155,000	13,351	3,338	3,504
								3,840	VHWRV	2,700,000	310,000	13,351	6,437	7,008
								7,680	0J6J0	2,450,000	300,000	13,351	6,437	14,016
ISE	15,360	0PMX8	2,400,000				300,000	13,351	6,676	28,032				
	1,920	M8YW0	2,000,000		155,000		13,351	3,338	3,504					
	3,840	XHYGF	2,700,000		310,000		13,351	6,437	7,008					
Mixed Use 3 DWPD	ISE	7,680	VV2M7	2,450,000	300,000	13,351	6,437	14,016						
		15,360	DX2PD	2,400,000	300,000	13,351	6,676	28,032						
		FIPS	1,600	60XH	2,000,000	310,000	13,351	3,338	8,760					
			ISE	1,600	MP4F2	2,000,000	310,000	13,351	3,338	8,760				
CD8P E3.S/EDSFF	Read Intensive 1 DWPD	PowerEdge		ISE	3,200	XFNX0	2,700,000	600,000	13,351	6,437	17,520			
			6,400		8RJ9	2,450,000	550,000	13,351	6,437	35,040				
	Mixed Use 3 DWPD		1,920		59Y5J	1,600,000	150,000	11,444	3,338	3,504				
			3,840		6RC59	1,900,000	200,000	11,444	5,245	7,008				
	CM7 E3.S/EDSFF		Read Intensive 1 DWPD		PowerEdge Isolon PowerScale PowerStore	ISE	1,600	R64H4	1,600,000	300,000	11,444	3,338	8,760	
							3,200	GP5GV	1,900,000	400,000	11,444	5,245	17,520	
			Mixed Use 3 DWPD*				3,840	YGK8R	2,700,000	310,000	13,351	6,437	7,008	
							7,680	G27W5	2,450,000	300,000	13,351	6,437	14,016	
							15,360	YRN98	2,000,000	260,000	13,351	5,054	28,032	
							3,200	6J3Y1	2,700,000	600,000	13,351	6,437	17,520	
6,400	V4DNH	2,450,000	550,000	13,351	6,437	35,040								

Power Loss Protection (PLP) Supported

BiCS FLASH™ Memory

*Dell and KIOXIA collaboration includes hard disk drive (HDD) technology with Toshiba Corporation. KIOXIA does not currently offer HDDs.

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. Read and write speed may vary depending on the host device, read and write conditions, and file size.

2. Data Security

- Sanitize Instant Erase (SIE) option supports Crypto Erase, which is a standardized feature defined by the technical committees (T10/T13) of INCITS (the Inter National Committee for Information Technology Standards).
- SED (Self-Encrypting Drive) with SAS interface supports TCG Enterprise SSC and SED with NVMe protocol supports TCG Opal and Ruby SSC. For a complete list of supported features, please review the product manual.
- 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/>.

3. Definition of capacity: KIOXIA Corporation 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.

4. KiB: A kibibyte (KiB) means 2¹⁰, or 1,024 bytes.

5. IOPS: Input output operations per second (or the numbers of I/O operations per second)

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

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