

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 (RM6 Series) and data center NVMe™ (CD7 Series) SSDs.



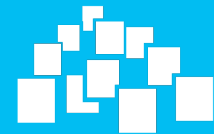
SATA performance roadmap has ended



Competitively priced to SATA



Better performance, latency and capacities



Embraces more architectures/management



KIOXIA PM6/PM7 Series Enterprise SAS SSD

PM6/PM7 Series Enterprise 24G SAS SSDs are designed for enterprise server and storage environments providing uncompromising performance and reliability.



KIOXIA RM6 Series Value SAS SSD

RM6 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 CM6 Series Enterprise NVMe™ SSD

Built on KIOXIA BiCS FLASH™ technology, the CM6 Series brings PCIe Gen 4 performance to enterprise NVMe SSDs, along with high reliability and availability. Available as single or dual-port, 1 or 3 DWPD, and up to 15.36 TB³ capacities.



KIOXIA CD7 Series Data Center NVMe SSD

As a SATA replacement, CD7 Series SSDs deliver PCIe Gen 5 performance in 2.5-inch and E3.S form factors. Available as single-port, and 1 DWPD endurance.

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Family	DWPD ^{*1} (for 5 years)	Platform	Data Security & Encryption Options ^{*2}	Capacity (GB) ^{*3}	KIOXIA Model #	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			
PM6** 24G SAS (SAS-4)	Read Intensive 1 DWPD	Dell PowerEdge	ISE	1,920	KPM6XRUG1T92	VRTN9	595K	125K	4,150	2,700	3,504			
				3,840	KPM6XRUG3T84	2XVX2	595K	115K	4,150	2,450	7,008			
				7,680	KPM6XRUG7T68	YM0T1	595K	155K	4,150	3,700	14,016			
			FIPS	1,920	KPM6WRUG1T92	H1P07	595K	125K	4,150	2,700	3,504			
				3,840	KPM6WRUG3T84	3VHY3	595K	115K	4,150	2,450	7,008			
				7,680	KPM6WRUG7T68	5T78C	595K	155K	4,150	3,700	14,016			
	Mixed Use 3 DWPD	Dell PowerEdge	ISE	800	KPM6XVUG800G	NNGV4	595k	145K	4,150	1,450	4,380			
				1,600	KPM6XVUG1T60	CHJJ	595k	265K	4,150	2,700	8,760			
				960	KPM6WVUG960G	J92FY	595k	105K	4,150	1,530	5,256			
			FIPS	1,920	KPM6WVUG1T92	1081V	595k	225K	4,150	3,000	10,512			
				3,840	KPM6WVUG3T84	MD4YN	595k	205K	4,150	2,700	21,024			
				1,920	KPM7XRUG1T92	6K35K	720K	155K	4,200	3,400	3,504			
PM7** 24G SAS (SAS-4)	Read Intensive 1 DWPD	Dell PowerEdge	ISE	3,840	KPM7XRUG3T84	MT0R5	720K	155K	4,200	3,650	7,008			
				7,680	KPM7XRUG7T68	7N1WT	720K	175K	4,200	4,100	14,016			
				15,360	KPM7XRUG15T3	19VGM	720K	160K	4,200	4,100	28,032			
				1,920	KPM7WRUG1T92	VGMCD	720K	155K	4,200	3,400	3,504			
				3,840	KPM7WRUG3T84	YTVTF	720K	155K	4,200	3,650	7,008			
				7,680	KPM7WRUG7T68	HCTYM	720K	175K	4,200	4,100	14,016			
			Mixed Use 3 DWPD	Dell PowerEdge	ISE	15,360	KPM7WRUG15T3	7VV3M	720K	160K	4,200	4,100	28,032	
						800	KPM7XVUG960G	X96H8	720K	95K	4,200	1,750	5,256	
						1,600	KPM71VUG1T60	4TRHM	720K	320K	4,200	3,400	8,760	
					FIPS	3,200	KPM7XVUG3T20	V0X40	720K	340K	4,200	3,650	17,520	
						6,400	KPM7XVUG6T40	R0MNR	720K	355K	4,200	4,100	35,040	
						12,800	KPM7XVUG12T8	G3DNT	720K	330K	4,200	4,100	70,080	
	RM6 12Gb/s SAS (SAS-3)	Read Intensive 1 DWPD	Dell PowerEdge	SED	960	KRM6VRUG960G	GRY0J	160K	40K	840	710	1,752		
					1,920	KRM6VRUG1T92	1FGWG	160K	40K	840	710	3,504		
					3,840	KRM6VRUG3T84	XNXD2	160K	40K	840	710	7,008		
				Mixed Use 3 DWPD	Dell PowerEdge	SED	7,680	KRM6VRUG7T68	5MHY8	160K	40K	840	710	14,016
							960	KRM6VVUG960G	42XXC	160K	50K	840	710	5,256
							1,920	KRM6VVUG1T92	N15JP	160K	50K	840	710	10,512
		CD7 PCIe® 4.0, 2.5* (1x4 32GT/s)	Read Intensive 1 DWPD	Dell PowerEdge	ISE	3,840	KCD7XRUG3T84	RFYP9	1,100K	180K	6,650	3,200	7,008	
						960	KCD7XRUG960G	8082N	1,100K	180K	6,250	1,700	1,752	
						3,840	KCD7XRUG3T84	RFYP9	1,100K	180K	6,650	3,200	7,008	
						3,840	KCD7XRUE3T84	JHC6T	1,050K	178K	6,450	3,200	7,008	
						7,680	KCD7XRUE7T68	KP4HG	1,050K	175K	6,250	5,600	14,016	
						3,840	KCD7XRUE3T84	JHC6T	1,050K	178K	6,450	3,200	7,008	
CM6 PCIe® 4.0 (1x4, 2x2 16GT/s)	Read Intensive 1 DWPD	Dell PowerEdge	ISE	1,920	KCM6XRUL1T92	NOVK0	1,300K	100K	6,900	2,800	3,504			
				3,840	KCM6XRUL3T84	8W2G5	1,400K	170K	6,900	4,200	7,008			
				7,680	KCM6XRUL7T68	VD0JX	1,400K	170K	6,900	4,000	14,016			
				15,360	KCM6XRUL15T3	J91CR	1,400K	170K	6,900	4,000	28,032			
				FIPS	1,920	KCM6FRUL1T92	TXP72	1,300K	100K	6,900	2,800	3,504		
					3,840	KCM6FRUL3T84	7YDNG	1,400K	170K	6,900	4,200	7,008		
			7,680		KCM6FRUL7T68	PDWJY	1,400K	170K	6,900	4,000	14,016			
			15,360		KCM6FRUL15T3	J6F35	1,400K	170K	6,900	4,000	28,032			
			Mixed Use 3 DWPD		Dell PowerEdge	ISE	1,600	KCM6XVUL1T60	P03YC	1,300K	215K	6,900	2,800	8,760
							3,200	KCM6XVUL3T20	97GR0	1,400K	350K	6,900	4,200	17,520
				6,400			KCM6XVUL6T40	K916X	1,400K	325K	6,900	4,000	35,040	
				FIPS		1,600	KCM6FVUL1T60	G7N00	1300K	215K	6,900	2,800	8,760	
	3,200	KCM6XVUL3T20				78DH9	1,400K	350K	6,900	4,200	17,520			
	6,400	KCM6XVUL6T40				7KGX3	1,400K	325K	6,900	4,000	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.

**Subject to change without notice.

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) or by NVM Express Inc.

- SED (Self-Encrypting Drive) SSDs support TCG Enterprise SSC or TCG Opal SSC

- KIOXIA FIPS drives utilize security modules designed to comply with FIPS 140-2 or 140-3 which define security requirements for cryptographic module by NIST (National Institute of Standards and Technology). The security modules utilized by CM6 and PM6 series have been validated for FIPS 140-2 Level 2 and are in process of FIPS 140-3 Level 2 validation.

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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