

## Dell EMC + KIOXIA = Better Together



- Together: 20+ years of storage collaboration\*
- SSDs shipping across all of Dell EMC's major server and storage product lines
- All KIOXIA SSDs are VMware vSAN™ certified for your virtualized data center environments
- Sole vendor to offer value SAS (RM6 Series) and data center NVMe™ (CD6 Series) SSDs, similarly priced to SATA



Upgrade your application performance in Dell EMC PowerEdge™ servers with value SAS (RM6 Series) and data center NVMe (CD6 Series) SSDs.



SATA performance roadmap has ended



Competitively priced to SATA



Better performance, latency and capacities



Embraces more architectures/management



### PM6 Series Enterprise SAS SSD

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



### 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.



### 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, 1/3 DWPD, and up to 30.72 TB<sup>3</sup> capacities.



### CD6 Series Data Center NVMe SSD

As a SATA replacement, CD6 Series delivers PCIe Gen 4 performance to data center-class NVMe SSDs for servers. Available as single-port, 1/3 DWPD, and capacities up to 15.36 TB.

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Family	DWPD <sup>*1</sup> (for 5 years)	Platform	Data Security & Encryption Options <sup>*2</sup>	Capacity (GB) <sup>*3</sup>	KIOXIA Model #	Dell P/N	Random Read IOPS <sup>*4 *5 *6</sup>	Random Write IOPS <sup>*4 *5 *6</sup>	Seq. Read M/s <sup>*6</sup>	Seq. Writes MB/s <sup>*6</sup>	Min. TBW			
PM6** SAS 3.0 (12Gb/s)	Read Intensive 1 DWPD for 5 Years	Dell PowerEdge	ISE	960	KPM6XRUG960G	6N7KY	415K	75K	2,200	1,450	1,752			
				1,920	KPM6XRUG1T92	4CN85	415K	90K	2,200	2,150	3,504			
				3,840	KPM6XRUG3T84	H9TT5	415K	105K	2,200	2,150	7,008			
				7,680	KPM6XRUG7T68	PD02Y	415K	80K	2,200	2,150	14,016			
				15,360	KPM6XRUG15T3	0J1G0	415K	84K	2,200	2,150	28,032			
			FIPS	960	KPM6WRUG960G	R9RTY	415K	75K	2,200	1,450	1,752			
				1,920	KPM6WRUG1T92	7F2D1	415K	90K	2,200	2,150	3,504			
				3,840	KPM6WRUG3T84	FH1W9	415K	105K	2,200	2,150	7,008			
				7,680	KPM6WRUG7T68	M571X	415K	80K	2,200	2,150	14,016			
				15,360	KPM6WRUG15T3	MJYM2	415K	84K	2,200	2,150	28,032			
	Mixed Use 3 DWPD for 5 Years	Dell PowerEdge	ISE	800	KPM6XVUG800G	JTKH5	415K	135K	2,200	1,450	4,380			
				1,600	KPM6XVUG1T60	GD3N0	415K	200K	2,200	2,150	8,760			
				3,200	KPM6XVUG3T20	NKM7P	415K	240K	2,200	2,150	17,520			
				6,400	KPM6XVUG6T40	6NWJ3	415K	150K	2,200	2,150	35,040			
				12,800	KPM6XVUG12T8	H28H3	415K	150K	2,200	2,150	70,080			
		Dell PowerEdge	FIPS	960	KPM6WVUG960G	WMWKG	415K	95K	2,200	1,450	5,256			
				1,920	KPM6WVUG1T92	DHWH5	415K	160K	2,200	2,150	10,512			
				3,840	KPM6WVUG3T84	81H9C	415K	160K	2,200	2,150	21,024			
	Write Intensive 10 DWPD for 5 Years	Dell PowerEdge	ISE	400	KPM6XMUG400G	VW3D6	415K	300K	2,200	1,450	7,300			
				800	KPM6XMUG800G	H6GCD	415K	300K	2,200	2,150	14,600			
				1,600	KPM6XMUG1T60	5GDXX	415K	300K	2,200	2,050	29,200			
				3,200	KPM6XMUG3T20	TXV6X	415K	300K	2,200	1,650	58,400			
	RM5 SAS-3.0 (12Gb/s)	Read Intensive 1 DWPD for 5 Years	Dell PowerEdge	SIE	960	KRM5XRUG960G	JDK40	150K	30K	838	650	1,752		
					1,920	KRM5XRUG1T92	37HTM	150K	35K	838	650	3,504		
					3,840	KRM5XRUG3T84	Y1DT5	150K	35K	838	650	7,008		
7,680					KRM5XRUG7T68	5XD2F	150K	35K	838	650	14,016			
ESI - Generic			SED	960	KRM5VRUG960G	F9GJ9	150K	30K	838	650	1,752			
				1,920	KRM5VRUG1T92	X00HD	150K	35K	838	650	3,504			
				3,840	KRM5VRUG3T84	CWTM5	150K	35K	838	650	7,008			
				7,680	KRM5VRUG7T68	Call Rep	150K	35K	838	650	14,016			
Mixed Use 3 DWPD for 5 Years		Dell PowerEdge	SIE	960	KRM5XVUG960G	91GGX	150K	45K	838	650	5,256			
				1,920	KRM5XVUG1T92	FDVMH	150K	50K	838	650	10,512			
				3,840	KRM5XVUG3T84	X78JM	150K	50K	838	650	21,024			
				960	KRM5VVUG960G	Call Rep	150K	45K	838	650	5,256			
		ESI - Generic	SED	1,920	KRM5VVUG1T92	Call Rep	150K	50K	838	650	10,512			
				3,840	KRM5VVUG3T84	Call Rep	150K	50K	838	650	21,024			
				Read Intensive 1 DWPD for 5 Years	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			
7,680		KRM6VRUG7T68	5MHY8				160K	40K	840	710	14,016			
Mixed Use 3 DWPD for 5 Years		Dell PowerEdge	SED	960	KRM6VVUG960G	42XXC	160K	50K	840	710	5,256			
				1,920	KRM6VVUG1T92	N15JP	160K	50K	840	710	10,512			
	3,840			KRM6VVUG3T84	FXYGR	160K	50K	840	710	21,024				
	960			KCD6XLUL960G	DNHHV	700K	30K	5,800	1,300	1,752				
Very Read Intensive 1 DWPD for 5 Years	Dell PowerEdge	SIE	1,920	KCD6XLUL1T92	M867W	700K	30K	5,800	1,150	3,504				
			3,840	KCD6XLUL3T84	K65PY	1,000K	60K	6,200	2,350	7,008				
			7,680	KCD6XLUL7T68	V190N	1,000K	85K	6,200	4,000	14,016				
			15,360	KCD6XLUL15T3	PRYX3	750K	30K	5,500	4,000	28,032				
CD6 PCIe® Gen4 1x4	Read Intensive 1 DWPD for 5 Years	Dell PowerEdge	SIE	1,920	KCM6XRUL1T92	N0VK0	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	V00JX	1,400K	170K	6,900	4,000	14,016			
				15,360	KCM6XRUL15T3	J91CR	1,400K	170K	6,900	4,000	28,032			
				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			
	Mixed Use 3 DWPD for 5 Years	Dell PowerEdge	FIPS	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			
				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				
			1,600	KCM6FVUL1T60	G7N00	1,300K	215K	6,900	2,800	8,760				
			3,200	KCM6FVUL3T20	78DH9	1,400K	350K	6,900	4,200	17,520				
6,400	KCM6FVUL6T40	7KGX3	1,400K	325K	6,900	4,000	35,040							
Power Loss Protection (PLP) Supported														
BiCS FLASH TLC														

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

\*\*Preliminary specifications. 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 five years, the stated product warranty period. 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

- FIPS drives are validated as FIPS 140-2 Level 2 which defines security requirements for cryptographic module by NIST (National Institute of Standards and Technology).

3. Definition of capacity: KIOXIA America, Inc. 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 = 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.

4. KiB: A kibibyte (KiB) means 2<sup>10</sup> 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 the host device, read and write conditions, and file size.

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