

## 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 Series) 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 12 Gb/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

The CM7 Series is a dual port drive that brings PCIe 4.0 (2.5-inch) and PCIe 5.0 (E3.S) to enterprise NVMe SSDs. Offering high reliability, 1 or 3 DWPD, and up to 30.72 TB<sup>3</sup> capacities.



### 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 for PowerEdge servers. They are available as single port drives with 1 and 3 DWPD endurance options.

|  |  |   |   |  |  |   |   |  |
|--|--|---|---|--|--|---|---|--|
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| Family          | <sup>*1</sup><br>DWPD<br>(for 5 years) | Platform  | <sup>*2</sup><br>Data Security &<br>Encryption Options | <sup>*3</sup><br>Capacity<br>(GB) |       | <sup>*4 *5</sup><br>Random Read<br>IOPS | <sup>*4 *5</sup><br>Random Write<br>IOPS | <sup>*5</sup><br>Seq. Read<br>MB/s | <sup>*5</sup><br>Seq. Writes<br>MB/s | Min. TBW |
|-----------------|--|---|--|-----------------------------------|-------|---|--|------------------------------------|--------------------------------------|----------|
| RM7<br>2.5-inch | Read Intensive<br>1 DWPD               | PowerEdge   | SED  | 960                               | 6RNXC | 180,000                                 | 40,000                                   | 1,100                              | 850                                  | 1,752    |
|                 |  |   |  | 1,920                             | 86XW7 | 190,000                                 | 40,000                                   | 1,100                              | 1,050                                | 3,504    |
|                 |  |   |  | 3,840                             | VJNDD | 190,000                                 | 40,000                                   | 1,100                              | 1,050                                | 7,008    |
|                 |  |   |  | 7,680                             | D480G | 190,000                                 | 40,000                                   | 1,100                              | 1,050                                | 14,016   |
|                 | Mixed Use<br>3 DWPD                    |   |  | 1,920                             | 59XF2 | 190,000                                 | 55,000                                   | 1,100                              | 1,050                                | 10,512   |
|                 |  |   |  | 3,840                             | MOJVN | 190,000                                 | 55,000                                   | 1,100                              | 1,050                                | 21,024   |
| PM7<br>2.5-inch | Read Intensive<br>1 DWPD               | PowerEdge<br>PowerStore<br>PowerScale<br>PowerMax | FIPS   | 1,920                             | VGMCD | 720,000                                 | 155,000                                  | 4,200                              | 3,400                                | 3,504    |
|                 |  |   |  | 3,840                             | YTVTF | 720,000                                 | 155,000                                  | 4,200                              | 3,650                                | 7,008    |
|                 |  |   |  | 7,680                             | HCTYM | 720,000                                 | 175,000                                  | 4,200                              | 4,100                                | 14,016   |
|                 |  |   |  | 15,360                            | 7VV3M | 720,000                                 | 160,000                                  | 4,200                              | 4,100                                | 28,032   |
|                 |  |   | ISE  | 1,920                             | 6K35K | 720,000                                 | 155,000                                  | 4,200                              | 3,400                                | 3,504    |
|                 |  |   |  | 3,840                             | MT0R5 | 720,000                                 | 155,000                                  | 4,200                              | 3,650                                | 7,008    |
|                 |  |   |  | 7,680                             | 7N1WT | 720,000                                 | 175,000                                  | 4,200                              | 4,100                                | 14,016   |
|                 |  |   |  | 15,360                            | 19VGM | 720,000                                 | 160,000                                  | 4,200                              | 4,100                                | 28,032   |
|                 | Mixed Use<br>3 DWPD                    |   | FIPS   | 1,600                             | G4NY4 | 720,000                                 | 320,000                                  | 4,200                              | 3,400                                | 8,760    |
|                 |  |   |  | 3,200                             | RGP9J | 720,000                                 | 340,000                                  | 4,200                              | 3,650                                | 17,520   |
|                 |  |   |  | 6,400                             | HDKT0 | 720,000                                 | 355,000                                  | 4,200                              | 4,100                                | 35,040   |
|                 |  |   |  | 12,800                            | XWD5X | 720,000                                 | 330,000                                  | 4,200                              | 4,100                                | 70,080   |
|                 |  |   | ISE  | 1,600                             | 4TRHM | 720,000                                 | 320,000                                  | 4,200                              | 3,400                                | 8,760    |
|                 |  |   |  | 3,200                             | VOX40 | 720,000                                 | 340,000                                  | 4,200                              | 3,650                                | 17,520   |
|                 |  |   |  | 6,400                             | R0MNR | 720,000                                 | 355,000                                  | 4,200                              | 4,100                                | 35,040   |
|                 |  |   |  | 12,800                            | G3DNT | 720,000                                 | 330,000                                  | 4,200                              | 4,100                                | 70,080   |
| CD8<br>2.5-inch | Read Intensive<br>1 DWPD               | PowerEdge   | ISE  | 960                               | YNGYD | 1,000,000                               | 80,000                                   | 7,200                              | 1,800                                | 1,752    |
|                 |  |   |  | 1,920                             | NNKCT | 1,250,000                               | 150,000                                  | 7,200                              | 3,500                                | 3,504    |
|                 |  |   |  | 3,840                             | N1MK1 | 1,250,000                               | 195,000                                  | 7,200                              | 3,800                                | 7,008    |
|                 |  |   |  | 7,680                             | MXD8J | 1,150,000                               | 200,000                                  | 7,100                              | 6,000                                | 14,016   |
|                 |  |   | SED  | 15,360                            | WGVJX | 1,050,000                               | 195,000                                  | 6,600                              | 6,000                                | 28,032   |
|                 |  |   |  | 960                               | P28PV | 1,000,000                               | 80,000                                   | 7,200                              | 1,800                                | 1,752    |
|                 |  |   |  | 1,920                             | CH6D3 | 1,250,000                               | 150,000                                  | 7,200                              | 3,500                                | 3,504    |
|                 |  |   |  | 3,840                             | M5F8G | 1,250,000                               | 195,000                                  | 7,200                              | 3,800                                | 7,008    |
|                 | Mixed Use<br>3 DWPD                    |   | ISE  | 7,680                             | 2CG11 | 1,150,000                               | 200,000                                  | 7,100                              | 6,000                                | 14,016   |
|                 |  |   |  | 15,360                            | OY0KV | 1,050,000                               | 195,000                                  | 6,600                              | 6,000                                | 28,032   |
|                 |  |   |  | 800                               | 30HYT | 1,000,000                               | 160,000                                  | 7,200                              | 1,800                                | 4,380    |
|                 |  |   |  | 1,600                             | 16MJ9 | 1,250,000                               | 310,000                                  | 7,200                              | 3,500                                | 8,760    |
|                 |  |   | SED  | 3,200                             | MXM95 | 1,250,000                               | 340,000                                  | 7,200                              | 3,800                                | 17,520   |
|                 |  |   |  | 6,400                             | 23VIP | 1,150,000                               | 380,000                                  | 7,100                              | 6,000                                | 35,040   |
|                 |  |   |  | 12,800                            | P1P59 | 1,050,000                               | 380,000                                  | 6,600                              | 6,000                                | 70,080   |
|                 |  |   |  | 800                               | 5TN4W | 1,000,000                               | 160,000                                  | 7,200                              | 1,800                                | 4,380    |
|                 |  |   | ISE  | 1,600                             | R2XRY | 1,250,000                               | 310,000                                  | 7,200                              | 3,500                                | 8,760    |
|                 |  |   |  | 3,200                             | D58FG | 1,250,000                               | 340,000                                  | 7,200                              | 3,800                                | 17,520   |
|                 |  |   |  | 6,400                             | 8529W | 1,150,000                               | 380,000                                  | 7,100                              | 6,000                                | 35,040   |
|                 |  |   |  | 12,800                            | JXXPP | 1,050,000                               | 380,000                                  | 6,600                              | 6,000                                | 70,080   |
| CM7<br>2.5-inch | Read Intensive<br>1 DWPD               | PowerEdge<br>PowerStore<br>PowerScale<br>PowerMax | FIPS   | 1,920                             | JPX03 | 2,000,000                               | 155,000                                  | 14,000                             | 3,500                                | 3,504    |
|                 |  |   |  | 3,840                             | VHWRY | 2,700,000                               | 310,000                                  | 14,000                             | 6,750                                | 7,008    |
|                 |  |   |  | 7,680                             | OJ6J0 | 2,450,000                               | 300,000                                  | 14,000                             | 6,750                                | 14,016   |
|                 |  |   |  | 15,360                            | OPMX8 | 2,400,000                               | 300,000                                  | 14,000                             | 7,000                                | 28,032   |
|                 |  |   | ISE  | 30,720                            | 75DPR | 1,600,000                               | 150,000                                  | 10,000                             | 4,900                                | 56,064   |
|                 |  |   |  | 1,920                             | M8YW0 | 2,000,000                               | 155,000                                  | 14,000                             | 3,500                                | 3,504    |
|                 |  |   |  | 3,840                             | XHYGF | 2,700,000                               | 310,000                                  | 14,000                             | 6,750                                | 7,008    |
|                 |  |   |  | 7,680                             | VV2M7 | 2,450,000                               | 300,000                                  | 14,000                             | 6,750                                | 14,016   |
|                 | Mixed Use<br>3 DWPD                    |   | FIPS   | 15,360                            | DX2PD | 2,400,000                               | 300,000                                  | 14,000                             | 7,000                                | 28,032   |
|                 |  |   |  | 30,720                            | 8WK55 | 1,600,000                               | 150,000                                  | 10,000                             | 4,900                                | 56,064   |
|                 |  |   |  | 1,600                             | 60XJH | 2,000,000                               | 310,000                                  | 14,000                             | 3,500                                | 8,760    |
|                 |  |   |  | 3,200                             | N0G5X | 2,700,000                               | 600,000                                  | 14,000                             | 6,750                                | 17,520   |
|                 |  |   | ISE  | 6,400                             | 6GR2H | 2,450,000                               | 550,000                                  | 14,000                             | 6,750                                | 35,040   |
|                 |  |   |  | 12,800                            | JCK10 | 2,400,000                               | 550,000                                  | 14,000                             | 7,000                                | 70,080   |
|                 |  |   |  | 1,600                             | MP4F2 | 2,000,000                               | 310,000                                  | 14,000                             | 3,500                                | 8,760    |
|                 |  |   |  | 3,200                             | XFNX0 | 2,700,000                               | 600,000                                  | 14,000                             | 6,750                                | 17,520   |
|                 | Mixed Use<br>3 DWPD                    |   | ISE  | 6,400                             | 8RJJ9 | 2,450,000                               | 550,000                                  | 14,000                             | 6,750                                | 35,040   |
|                 |  |   |  | 12,800                            | 092P6 | 2,400,000                               | 550,000                                  | 14,000                             | 7,000                                | 70,080   |

| Family       | <sup>*1</sup><br>DWPD<br>(for 5 years) | Platform                              | <sup>*2</sup><br>Data Security &<br>Encryption Options | <sup>*3</sup><br>Capacity<br>(GB) |        | <sup>*4 *5</sup><br>Random Read<br>IOPS | <sup>*4 *5</sup><br>Random Write<br>IOPS | <sup>*5</sup><br>Seq. Read<br>MB/s | <sup>*5</sup><br>Seq. Writes<br>MB/s | Min. TBW |        |
|--------------|--|---------------------------------------|--|-----------------------------------|--------|---|--|------------------------------------|--------------------------------------|----------|--------|
| CD8P<br>E3.S | Read Intensive<br>1 DWPD               | PowerEdge                             | ISE  | 1,920                             | 59Y5J  | 1,600,000                               | 150,000                                  | 12,000                             | 3,500                                | 3,504    |        |
|              |  |                                       |  | 3,840                             | 6RC59  | 1,900,000                               | 200,000                                  | 12,000                             | 5,500                                | 7,008    |        |
|              |  |                                       |  | 1,920                             | W4JNM  | 1,600,000                               | 150,000                                  | 12,000                             | 3,500                                | 3,504    |        |
|              |  |                                       |  | 3,840                             | 1936G  | 1,900,000                               | 200,000                                  | 12,000                             | 5,500                                | 7,008    |        |
|              |  |                                       |  | 7,680                             | NPVXY  | 2,000,000                               | 200,000                                  | 12,000                             | 5,500                                | 14,016   |        |
|              |  |                                       |  | 7,680                             | DF4JD  | 2,000,000                               | 200,000                                  | 12,000                             | 5,500                                | 14,016   |        |
|              |  |                                       |  | 15,360                            | T82MD  | 2,000,000                               | 200,000                                  | 12,000                             | 5,300                                | 28,032   |        |
|              | Mixed Use<br>3 DWPD                    |                                       |  | 15,360                            | YW71V  | 2,000,000                               | 200,000                                  | 12,000                             | 5,300                                | 28,032   |        |
|              |  |                                       |  | 1,600                             | 8VMW3  | 1,600,000                               | 300,000                                  | 12,000                             | 3,500                                | 8,760    |        |
|              |  |                                       |  | 3,200                             | X2YXD  | 1,900,000                               | 400,000                                  | 12,000                             | 5,500                                | 17,520   |        |
|              |  |                                       |  | 1,600                             | R64H4  | 1,600,000                               | 300,000                                  | 12,000                             | 3,500                                | 8,760    |        |
|              |  |                                       |  | 3,200                             | GP5GV  | 1,900,000                               | 400,000                                  | 12,000                             | 5,500                                | 17,520   |        |
|              |  |                                       |  | 6,400                             | HVH8K  | 2,000,000                               | 400,000                                  | 12,000                             | 5,500                                | 35,040   |        |
|              |  |                                       |  | 6,400                             | PPTDY  | 2,000,000                               | 400,000                                  | 12,000                             | 5,500                                | 35,040   |        |
| CM7<br>E3.S  | Read Intensive<br>1 DWPD               | PowerEdge<br>PowerStore<br>PowerScale | ISE  | 12,800                            | DDPD1  | 2,000,000                               | 400,000                                  | 12,000                             | 5,300                                | 70,080   |        |
|              |  |                                       |  | 12,800                            | W89P1  | 2,000,000                               | 400,000                                  | 12,000                             | 5,300                                | 70,080   |        |
|              |  |                                       |  | 1,920                             | 77GXG  | 2,000,000                               | 155,000                                  | 14,000                             | 3,500                                | 3,504    |        |
|              |  |                                       |  | 3,840                             | YGK8R  | 2,700,000                               | 310,000                                  | 14,000                             | 6,750                                | 7,008    |        |
|              |  |                                       | Mixed Use<br>3 DWPD                                    | FIPS                              | 7,680  | G27W5                                   | 2,450,000                                | 300,000                            | 14,000                               | 6,750    | 14,016 |
|              |  |                                       |  |                                   | 15,360 | YRN98                                   | 2,000,000                                | 260,000                            | 13,000                               | 5,300    | 28,032 |
|              |  |                                       |  |                                   | 3,840  | 4VJDW                                   | 2,700,000                                | 310,000                            | 14,000                               | 6,750    | 7,008  |
|              | 7,680                                  |                                       |  |                                   | 8K9DV  | 2,450,000                               | 300,000                                  | 14,000                             | 6,750                                | 14,016   |        |
|              | ISE                                    |                                       |  | 15,360                            | RWFF6  | 2,000,000                               | 260,000                                  | 13,000                             | 5,300                                | 28,032   |        |
|              |  |                                       |  | 1,600                             | N9W7V  | 2,000,000                               | 310,000                                  | 14,000                             | 3,500                                | 8,760    |        |
|              |  |                                       |  | 3,200                             | 6J3Y1  | 2,700,000                               | 600,000                                  | 14,000                             | 6,750                                | 17,520   |        |
|              |  |                                       |  | 6,400                             | V4DNH  | 2,450,000                               | 550,000                                  | 14,000                             | 6,750                                | 35,040   |        |
|              |  |                                       |  | 12,800                            | T3GVH  | 2,000,000                               | 470,000                                  | 13,000                             | 5,300                                | 70,080   |        |
|              |  |                                       |  | FIPS                              | 3,200  | F1C6W                                   | 2,700,000                                | 600,000                            | 14,000                               | 6,750    | 17,520 |

NOTES:

<sup>\*1</sup>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 committee (SCSI) 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 = 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. IOPS: Input output operations per second (or the numbers of I/O operations per second)

5. 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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