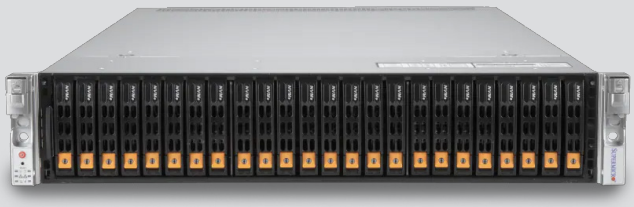
KIOXIA

KIOXIA + Supermicro



Learn how to optimize your Supermicro servers with KIOXIA SSDs to maximize performance and efficiency at:

kioxia.com/smc

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 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

The 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 CD8P & XD7P Data Center NVMe™ SSDs

CD8P 2.5-inch and E3.S SSDs deliver PCIe 5.0 performance for Supermicro servers, available in 1 and 3 DWPD endurances, and capacities to 30TB. XD7P Series E1.S SSDs are PCIe 4.0 specification compliant and designed for Cloud and Hyperscale requirements including the Open Compute Project (OCP) specification, available in 9.5mm and 15mm thickness options, and capacities to 7.68TB.

Anders Graham
Director of Business Development Data Center & Client SSD
anders.graham@kioxia.com
+1 408 728 1602

Alessandro Gilligan
Sr Staff Business Development Manager, Data Center Division
alessandro.gilligan@kioxia.com
+1 408 705 3510

Corrina Chao
Business Development Manager III, Data Center Division
corrina.chao@kioxia.com
+1 408 728 1481

Ryusuke Kashiwabara (Americas)
Sr Director of Sales
ryusuke.kashiwabara@kioxia.com
+1 949 737 7320

Kelvin Kao
Sales Sr Manager, West Sales
kelvin.kao@kioxia.com
+1 408 499 3749

Johnson Hua (Taiwan)
Sr. Manager, KIOXIA Taiwan, Inc.
johnson.hua@kioxia.com
+886 2 2508 9909 ext 405

Eric Laforge
Senior Account Manager, KIOXIA Europe GmbH
eric1.laforge@kioxia.com
+33 6 48 44 71 64

Paul Lin
Product Manager, SSD Business Unit
paulhan1.lin@kioxia.com
+49 211 36877 143

Aleksandar Relic
Chief Engineer, SSD Marketing & Engineering
aleksandar.relic@kioxia.com
+49 0 211 36877 502

Family	Security	Model	Capacity[2] (GB)	Max Random Read IOPS (4KiB)[3]	Max Random Write IOPS (4KiB)[3]	Max Sequential Read (MB/s)[3]	Max Sequential Write (MB/s)[3]	Min Terabytes Written[4]
RM7 Read Intensive 1 DWPD[1]	SED	KRM7VRUG960G	960	180,000	40,000	1,100	850	1,752
		KRM7VRUG1T92	1,920	190,000	40,000	1,100	1,050	3,504
		KRM7VRUG3T84	3,840	190,000	40,000	1,100	1,050	7,008
		KRM7VRUG7T68	7,680	190,000	40,000	1,100	1,050	14,016
RM7 Mixed Use 3 DWPD[1]	SED	KRM7VVUG960G	960	190,000	55,000	1,100	1,050	5,256
		KRM7VVUG1T92	1,920	190,000	55,000	1,100	1,050	10,512
		KRM7VVUG3T84	3,840	190,000	55,000	1,100	1,050	21,024
PM7 Read Intensive 1 DWPD[1]	SIE*	KPM7XRUG1T92	1,920	720,000	155,000	4,200	3,650	3,504
		KPM7XRUG3T84	3,840	720,000	155,000	4,200	3,650	7,008
		KPM7XRUG7T68	7,680	720,000	175,000	4,200	4,100	14,016
		KPM7XRUG15T3	15,306	720,000	160,000	4,200	4,100	28,032
		KPM7XRUG30T7	30,720	720,000	80,000	4,150	3,200	56,064
PM7 Mixed Use 3 DWPD[1]	SIE*	KPM7XVUG1T60	1,600	720,000	320,000	4,200	3,400	8,760
		KPM7XVUG3T20	3,200	720,000	340,000	4,200	3,650	17,520
		KPM7XVUG6T40	6,400	720,000	355,000	4,200	4,100	35,040
		KPM7XVUG12T8	12,800	720,000	330,000	3,950	4,100	70,080
CM7 Read Intensive 1 DWPD[1] U.2	SIE*	KCMYXRUG1T92	1,920	2,000,000	155,000	14,000	3,500	3,504
		KCMYXRUG3T84	3,840	2,700,000	310,000	14,000	6,750	7,008
		KCMYXRUG7T68	7,680	2,450,000	300,000	14,000	6,750	14,016
		KCMYXRUG15T3	15,360	2,400,000	300,000	14,000	7,000	28,032
		KCMYXRUG30T7	30,720	1,600,000	150,000	10,000	4,900	56,064
CM7 Mixed Use 3 DWPD[1] U.2	SIE*	KCMYXVUG1T60	1,600	2,000,000	310,000	14,000	3,500	8,760
		KCMYXVUG3T20	3,200	2,700,000	600,000	14,000	6,750	17,520
		KCMYXVUG6T40	6,400	2,450,000	550,000	14,000	6,750	35,040
		KCMYXVUG12T8	12,800	2,400,000	550,000	14,000	7,000	70,080
CM7 Read Intensive 1 DWPD[1] E3.S	SIE*	KCM7XRJE1T92	1,920	2,000,000	155,000	14,000	3,500	3,504
		KCM7XRJE3T84	3,840	2,700,000	310,000	14,000	6,750	7,008
		KCM7XRJE7T68	7,680	2,450,000	300,000	14,000	6,750	14,016
		KCM7XRJE15T3	15,360	2,000,000	260,000	13,000	5,300	28,032
CM7 Mixed Use 3 DWPD[1] E3.S	SIE*	KCM7XVJE1T60	1,600	2,000,000	310,000	14,000	3,500	8,760
		KCM7XVJE3T20	3,200	2,700,000	600,000	14,000	6,750	17,520
		KCM7XVJE6T40	6,400	2,450,000	550,000	14,000	6,750	35,040
		KCM7XVJE12T8	12,800	2,000,000	470,000	13,000	5,300	70,080
CD8P Read Intensive 1 DWPD[1] U.2	SIE	KCD8XPUG1T92	1,920	1,600,000	150,000	12,000	3,500	3,504
		KCD8XPUG3T84	3,840	1,900,000	200,000	12,000	5,500	7,008
		KCD8XPUG7T68	7,680	2,000,000	200,000	12,000	5,500	14,016
		KCD8XPUG15T3	15,360	2,000,000	200,000	12,000	5,500	28,032
		KCD8XPUG30T7	30,720	1,600,000	150,000	10,000	4,900	56,064
CD8P Mixed Use 3 DWPD[1] U.2	SIE	KCD8XPUG1T60	1,600	1,600,000	300,000	12,000	3,500	8,760
		KCD8XPUG3T20	3,200	1,900,000	400,000	12,000	5,500	17,520
		KCD8XPUG6T40	6,400	2,000,000	400,000	12,000	5,500	35,040
		KCD8XPUG12T8	12,800	2,000,000	400,000	12,000	5,500	70,080
CD8P Read Intensive 1 DWPD[1] E3.S	SIE	KCD8XPJE1T92	1,920	1,600,000	150,000	12,000	3,500	3,504
		KCD8XPJE3T84	3,840	1,900,000	200,000	12,000	5,500	7,008
		KCD8XPJE7T68	7,680	2,000,000	200,000	12,000	5,500	14,016
		KCD8XPJE15T3	15,360	2,000,000	200,000	12,000	5,300	28,032
CD8P Mixed Use 3 DWPD[1] E3.S	SIE	KCD8XPJE1T60	1,600	1,600,000	300,000	12,000	3,500	8,760
		KCD8XPJE3T20	3,200	1,900,000	400,000	12,000	5,500	17,520
		KCD8XPJE6T40	6,400	2,000,000	400,000	12,000	5,500	35,040
		KCD8XPJE12T8	12,800	2,000,000	400,000	12,000	5,300	70,080
XD7P Read Intensive 1 DWPD[1] E1.S 9.5mm	Non-SED*	KXDZ1RJJ1T92	1,920	1,500,000	95,000	7,200	3,100	3,504
		KXDZ1RJJ3T84	3,840	1,650,000	180,000	7,200	4,800	7,008
		KXDZ1RJJ7T68	7,680	1,550,000	200,000	7,200	4,800	14,016
XD7P Read Intensive 1 DWPD[1] E1.S 15mm	Non-SED*	KXDZ1RJ91T92	1,920	1,500,000	95,000	7,200	3,100	3,504
		KXDZ1RJ93T84	3,840	1,650,000	180,000	7,200	4,800	7,008
		KXDZ1RJ97T68	7,680	1,550,000	200,000	7,200	4,800	14,016

* SED models also available. FIPS also available on PM7 and CM7.

NOTES:

1. DWPD: Drive Writes per Day rating while maintaining 5 years useful life. "Drive Write" is defined as the bytes of written data up to the drive capacity point. It is used as a comparison of endurance among SSDs of equal capacity points.
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 = 2^{30} bytes = 1,073,741,824 bytes and 1TB = 2^{40} 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 kibibyte (KiB) means 2^{10}, or 1,024 bytes and a mebibyte (MiB) means 2^{20}, or 1,048,576 bytes. IOPS is Input Output Per Second (or the number of I/O operations per second). Read and write speed may vary depending on the host device, read and write conditions, and file size.
4. Measured using worst-case 4K random write workload.

TRADEMARKS:
NVMe is a trademark of NVM Express, Inc. PCIe is a registered trademarks of PCI-SIG. All other company names, product names and service names may be trademarks of their respective companies.

DISCLAIMERS:
©2024 KIOXIA America, Inc. All Rights Reserved. Information in this document, including products, availability, specifications, technical/application data and contacts are current and believed accurate on the date of publication, but is subject to change without prior notice.

Copyright © 2024 KIOXIA America, Inc. All rights reserved.