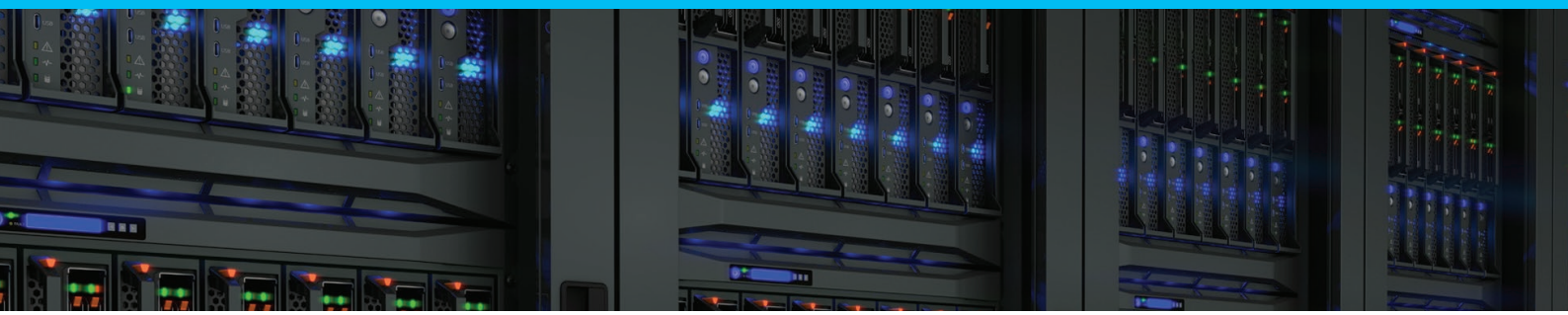
KIOXIA



Enterprise SSDs

Leveraging state-of-the-art BiCS FLASH™ 3D flash memory with in-house designed controllers and firmware, KIOXIA enterprise SSDs optimize high performance, endurance and reliability to run mission critical applications in enterprise data center environments. To meet the demands of highly transactional and high-bandwidth workloads, these SSDs feature high levels of performance and data protection with power-loss-protection (PLP)[*1]. KIOXIA enterprise SSDs offer a range of security options[*2] designed for business critical data storage.

2.5-inch E3.S

CM9 Series
PCIe® / NVMe™ SSD

2.5-inch E3.S

CM7 Series
PCIe® / NVMe™ SSD

2.5-inch E3.S E3.L

LC9 Series
PCIe® / NVMe™ SSD

2.5-inch

PM7 Series
SAS SSD

BiCS FLASH™

Product image may differ from the actual product.

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KIOXIA CM9 Series

Based on BiCS FLASH™ generation 8, the CM9 Series of dual-port PCIe® 5.0/ NVMe™ SSDs is available in 2.5-inch and E3.S form factor with capacities up to 61.44 TB. These SSDs feature Power Loss Protection (PLP) and offer a range of security/encryption options*2.

Model Number	DWPD *3	Interface	Form Factor	User Capacity (GB) *4	Performance (up to)				Typical Power Consumption (W)	Operating Temperature (°C) *10	Dimensions T / W / L (mm) *11
					Sequential (128 KiB) (MB/s) *5 *6 *7		Random (4 KiB) (KIOPS) *5 *6 *7 *8				
					Read	Write	Read	Write			
KCM9XVUL12T8	3	PCIe® Gen5 single x4, dual x2	2.5-inch	12,800	14,800	11,000	3,400	800	25	0 to 75	15.0 / 69.85 / 100.45
KCM9XVUL6T40				6,400		10,000					
KCM9XVUL3T20				3,200	14,500	7,000	2,900	600			
KCM9XVUL1T60				1,600		3,600	2,050	310			
KCM9XVJE12T8	3	PCIe® Gen5 single x4, dual x2	E3.S	12,800	14,800	11,000	3,400	800	25	0 to 75	7.5 / 76.0 / 112.75
KCM9XVJE6T40				6,400		10,000					
KCM9XVJE3T20				3,200	14,500	7,000	2,900	600			
KCM9XVJE1T60				1,600		3,600	2,050	310			
KCM9XRUL61T4	1	PCIe® Gen5 single x4, dual x2	2.5-inch	61,440	13,500	10,000	1,200	100	25	0 to 75	15.0 / 69.85 / 100.45
KCM9XRUL30T7				30,720		9,750	2,750	300			
KCM9XRUL15T3				15,360	14,800	11,000	3,400	540			
KCM9XRUL7T68				7,680		10,000		500			
KCM9XRUL3T84				3,840	14,500	7,000	2,900	360			
KCM9XRUL1T92				1,920		3,600	2,050	170			
KCM9XRJE30T7	1	PCIe® Gen5 single x4, dual x2	E3.S	30,720	13,500	9,750	2,750	270	25	0 to 75	7.5 / 76.0 / 112.75
KCM9XRJE15T3				15,360	14,800	11,000	3,400	540			
KCM9XRJE7T68				7,680		10,000		500			
KCM9XRJE3T84				3,840	14,500	7,000	2,900	360			
KCM9XRJE1T92				1,920		3,600	2,050	170			

KIOXIA CM7 Series

Based on BiCS FLASH™ generation 5, the CM7 Series of dual-port PCIe® 5.0/ NVMe™ SSDs is available in 2.5-inch and E3.S form factor with capacities up to 30.72 TB. These SSDs feature Power Loss Protection (PLP) and offer a range of security/encryption options*2.

Model Number	DWPD *3	Interface	Form Factor	User Capacity (GB) *4	Performance (up to)				Typical Power Consumption (W)	Operating Temperature (°C) *10	Dimensions T / W / L (mm) *11
					Sequential (128 KiB) (MB/s) *5 *6 *7		Random (4 KiB) (KIOPS) *5 *6 *7 *8				
					Read	Write	Read	Write			
KCMY1VUG12T8	3	PCIe® Gen5 single x4, dual x2	2.5-inch	12,800	14,000	7,000	2,400	550	25	0 to 73	15.0 / 69.85 / 100.45
KCMY1VUG6T40				6,400		6,750	2,450	550			
KCMY1VUG3T20				3,200			2,700	600		0 to 76	
KCMY1VUG1T60				1,600		3,500	2,000	310	22		
KCM71VJE12T8	3	PCIe® Gen5 single x4, dual x2	E3.S	12,800	13,000	5,300	2,000	470	25	0 to 73	7.5 / 76.0 / 112.75
KCM71VJE6T40				6,400	14,000	6,750	2,450	550		0 to 76	
KCM71VJE3T20				3,200			2,700	600	24		
KCM71VJE1T60				1,600		3,500	2,000	310	21		
KCMY1RUG30T7	1	PCIe® Gen5 single x4, dual x2	2.5-inch	30,720	10,000	4,900	1,600	150	25	0 to 72	15.0 / 69.85 / 100.45
KCMY1RUG15T3				15,360	14,000	7,000	2,400	300		0 to 73	
KCMY1RUG7T68				7,680		6,750	2,450	300			
KCMY1RUG3T84				3,840			2,700	310		0 to 76	
KCMY1RUG1T92				1,920		3,500	2,000	155	22		
KCM71RJE15T3	1	PCIe® Gen5 single x4, dual x2	E3.S	15,360	13,000	5,300	2,000	260	25	0 to 73	7.5 / 76.0 / 112.75
KCM71RJE7T68				7,680	14,000	6,750	2,450	300		0 to 76	
KCM71RJE3T84				3,840			2,700	310	24		
KCM71RJE1T92				1,920		3,500	2,000	155	21		

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KIOXIA LC9 Series

Based on BiCS FLASH™ generation 8 QLC flash memory, the LC9 Series of dual-port PCIe® 5.0/ NVMe™ SSDs is available in 2.5-inch form factor with capacities up to 122.88 TB and in E3.L form factor with capacities 245.76 TB. These SSDs feature Power Loss Protection (PLP) and offer a range of security/encryption options*2.
* E3.S form factor will be available later in 2026.

Model Number	IU Size **1	DWPD *3	Interface	Form Factor	User Capacity (TB) *4	Performance (up to)				Typical Power Consumption (W)	Operating Temperature (°C) *9	Dimensions T / W / L (mm) *11
						Sequential (128 KiB) (MB/s) *5 *6 *7		Random (4 KiB) (KIOPS) *5 *6 *7 *8				
						Read	Write	Read	Write **2			
RLC9CZB122T	16 KiB	0.3 @ 16 KiB 0.075 @ 4 KiB	PCIe® Gen5 single x4, dual x2	2.5-inch	122.88	12,000	2,700	1,100	35 @ 16 KiB	25	0 to 75	15.0 / 69.85 / 100.45
RLC9CZB61T4					61.44		2,800	1,200	40 @ 16 KiB			
RLC9CDB30T7	4 KiB	0.25 @ 4 KiB			30.72	11,800		1,250	150 @ 4 KiB			
RLC9CZB30T7	16 KiB	0.3 @ 16 KiB 0.075 @ 4 KiB				12,000		1,350	52 @ 16 KiB			
RLC9CZV245T	16 KiB	0.3 @ 16 KiB 0.075 @ 4 KiB	PCIe® Gen5 single x4, dual x2	E3.L	245.76	12,000	3,500	1,000	45 @ 16 KiB	30	0 to 75	7.5 / 76.0 / 142.2

KIOXIA PM7 Series

Based on BiCS FLASH™ generation 5, the PM7 Series of dual-port 24G SAS SSDs is available in a 2.5-inch form factor with capacities up to 30.72 TB. These SSDs feature Power Loss Protection (PLP) and offer a range of security/encryption options*2.

Model Number	DWPD *3	Interface	Form Factor	User Capacity (GB) *4	Performance (up to)				Power Consumption Mode (W)	Operating Temperature (°C) *9	Dimensions T / W / L (mm) *11
					Sequential (128 KiB) (MB/s) *5 *6 *7		Random (4 KiB) (KIOPS) *5 *6 *7 *8				
					Read	Write	Read	Write			
KPM71VUG12T8	3	SAS-4 Narrow Single Narrow Dual	2.5-inch	12,800	4,200	4,100	720	330	9 / 12 / 14 / 18	0 to 70	15.0 / 69.85 / 100.45
KPM71VUG6T40				6,400				355			
KPM71VUG6T40				3,200		3,650		340			
KPM71VUG1T60				1,600		3,400		320			
KPM71RUG30T7	1	SAS-4 Narrow Single Narrow Dual	2.5-inch	30,720	4,150	3,200	720	80	9 / 12 / 14 / 18	0 to 70	15.0 / 69.85 / 100.45
KPM71RUG15T3				15,360	4,200	4,100		160			
KPM71RUG7T68				7,680				175			
KPM71RUG3T84				3,840		3,650		155			
KPM71RUG1T92				1,920		3,400					

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*1 : PLP (Power Loss Protection): In case of an unexpected shutdown, PLP allows data recorded in buffer memory to be written to flash memory, utilizing back up power from solid capacitors.
*2 : Optional security features
- Drive models with different security options have different model numbers.
- CM9, CM7, LC9 and PM7 Series security options: Sanitize Instant Erase (SIE), Self-Encrypting Drive (SED), FIPS (Federal Information Processing Standards) SED optional models are available.
- CM9, CM7 and LC9 Series: SED optional model supports TCG Opal and Ruby SSCs. It has a few unsupported features of TCG Opal SSC.
- PM7 Series: SED optional model supports TCG Enterprise SSC.
- SIE optional model supports Cryptographic Erase, which is a standardized feature defined by the technical committees (SCSI) of INCITS (the InterNational Committee for Information Technology Standards).
- FIPS SED optional models of PM7 utilize a security module designed to comply with FIPS 140-2 and FIPS 140-3, which define security requirements for cryptographic module by NIST (National Institute of Standards and Technology). FIPS SED optional models of CM9, CM7 and LC9 utilize a security module designed to comply with FIPS 140-3.
- For more details and the latest validation status of each drive, please make inquiries through “Contact us” in each region’s website, https://www.kioxia.com/.
- Optional security feature compliant models are not available in all countries due to export control and local regulations.

*3 : 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 under the specified workload for the specified lifetime. Actual results may vary due to system configuration, usage and other factors.
*4 : Definition of capacity: 1 terabyte (1 TB) = 1,000 gigabytes (GB), 1 GB = 1,000,000,000 (10^9) bytes
*5 : A kibibyte (KiB) means 2^10, or 1,024 bytes.
*6 : The performance of the CM9, CM7 and LC9 Series is based on single-port mode (single x4). The performance specifications of the PM7 Series is based on testing in dual-port mode, running at 18 W of power.
*7 : Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.
*8 : IOPS: Input Output Per Second (or the number of I/O operations per second)
*9 : Case surface temperature
*10 : Composite temperature reported by SMART.
*11 : Dimensions represent the nominal values.
**1 : IU Size : Indirection Unit Size. It is the minimum unit size of the FTL mapping table to manage user data on NAND flash memory.
**2 : Random write performance is based on the workload of random writes with the defined IU size for each model.

Customers must refer to and comply with the latest versions of all relevant KIOXIA information, including without limitation, this document, the specifications, the data sheets and application notes for Product and the precautions and conditions set forth in the KIOXIA Corporation Reliability Handbook and the instructions for the application with which the Product will be used with or for.

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