



Client SSDs

Leveraging state-of-the-art BiCS FLASH™ 3D flash memory with in-house designed firmware, KIOXIA client SSDs come in a variety of form factors. They also offer a variety of capacities, performance and security options, and are well-suited for mobile computing and desktop PCs.



Product image may differ from the actual product.



KIOXIA XG8 Series

Utilizing 112-layer BiCS FLASH[™] 3D flash memory (5th generation BiCS FLASH[™] 3D flash memory), the XG8 Series is available in an M.2 2280, single-sided and double sided form factor with a PCle® 4.0 (Gen4 x4) interface, supporting the NVMe™ command set. This provides a powerful combination power efficiency and high performance, consuming 8.1 W or less with over 7,000 MB/s sequential read performance, respectively. The XG8 Series offers a Self-encrypting Drive (SED) option that supports TCG Opal version 2.01, under a different model number.

Model Number	Security Feature	Interface	Form Factor	User Capacity (GB)	Performance (up to) *2		Typical Power	Operating	Dimensions *3	Maximum	Power Supply	
					Sequential Read (MB/s)	Sequential Write (MB/s)	Consumption (W)	Temperature (°C)	H/W/L (mm)	Weight (g)	Voltage (V)	
KXG80ZN84T09	-			4,096	7,000	5,800	8.1	Controller 0 to 95	3.58max / 22 / 80	8.3	3.3	
KXG80ZNV2T04		PCIe®	M.2 2280	2,048					2.23max / 22 / 80	7.1		
KXG80ZNV1T02		Gen4 x4	IVI.2 2280	1,024		5,600	7.7			6.8	3.3	
KXG80ZNV512G				512		5,000				6.6		

KIOXIA BG6 Series

In a compact form factor and based on 6th generation BiCS FLASH[™] 3D flash memory (2,048 GB & 1,024 GB), the BG6 Series is designed for thin and light performance-oriented use cases, such as ultra-mobile PCs. Available in capacities up to 2,048 GB, this series features Host Memory Buffer (HMB), PCle* Gen4 x4 interface and supports the NVMe™ command set. The BG6 Series offers a Self-encrypting Drive (SED) option that supports TCG Opal version 2.01, under a different model number.

	Security Feature	Interface	Form Factor	User Capacity (GB)	Performance (up to)		Typical Power	Operating	Dimensions *3	Maximum	
Model Number					Sequential Read (MB/s)	Sequential Write (MB/s)	Consumption (W)	Temperature (°C)	H/W/L (mm)	Weight (g)	Voltage (V)
KBG60ZNS2T04		PCIe® Gen4 x4	M.2 2230	2,048	6,000	5,300	4.4	Controller 0 to 95 Other Components 0 to 85 Controller 0 to 95 Other Components 0 to 85	2.38max / 22 / 30	3.0	3.3
KBG60ZNS1T02	_			1,024		5,000	4.3		2.23max / 22 / 30	2.9	
KBG60ZNS512G				512	4,800	4,000	4.7			2.8	
KBG60ZNS256G				256	4,400	3,000	4.3			2.7	
KBG60ZNV2T04			M.2 2280	2,048	6,000 4,800	5,300	4.4		2.38max / 22 / 80	6.0	
KBG60ZNV1T02	-	- PCIe® Gen4 x4		1,024		5,000	4.3		2.23max / 22 / 80	5.9	
KBG60ZNV512G				512		4,000	4.7			5.8	
KBG60ZNV256G				256	4,400	3,000	4.3			5.7	

KIOXIA BG5 Series

In a compact form factor and based on 112-layer BiCS FLASH™ 3D flash memory (5th generation BiCS FLASH™ 3D flash memory), the BG5 Series is designed for thin and light performance-oriented use cases, such as ultra-mobile PCs. Available in capacities up to 1,024 GB, this series features Host Memory Buffer (HMB), PCle® Gen4 x4 interface and supports the NVMe™ command set. The BG5 Series offers a Self-encrypting Drive (SED) option that supports TCG Opal version 2.01, under a different model number.

	Security Feature	Interface	Form Factor	User Capacity (GB)	Performance (up to)		Typical Power	Operating	Dimensions *3	Maximum	Power Supply
Model Number					Sequential Read (MB/s)	Sequential Write (MB/s)	Consumption (W)	Temperature (°C)	H/W/L (mm)	Weight (g)	Voltage (V)
KBG50ZNS1T02		PCIe® Gen4 x4	M.2 2230	1,024	3,500	2,900	4.3	Controller 0 to 95 Other Components 0 to 85 Controller 0 to 95 Other Components 0 to 85	2.23max / 22 / 30	3.0	3.3
KBG50ZNS512G	-			512		2,700	4.1			2.9	
KBG50ZNS256G				256	3,400	1,900	4.0			2.8	
KBG50ZNV1T02	_	PCIe® Gen4 x4	M 2 2280	1,024		2,900	4.3		2.23max / 22 / 80	6.0	3.3
KBG50ZNV512G				512	3,500	2,700	4.1			5.9	
KBG50ZNV256G				256	3,400	1,900	4.0			5.8	

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^{*1 :} 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 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^30 = 1,073,741,824 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 preinstalled software applications, or media content. Actual formatted capacity may vary.

^{*2 :} Read and write speed may vary depending on various factors such as host devices, software (drivers, OS etc.), and read/write conditions.

^{*3 :} Dimensions represent the nominal values.

Optional security feature compliant drives are not available in all countries due to export control and local regulations.