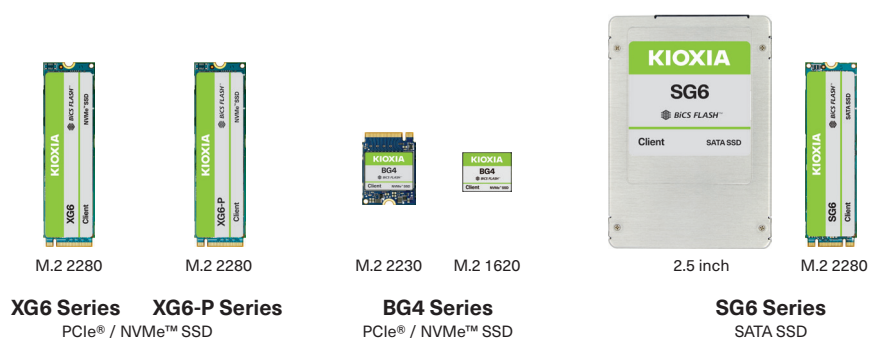




Client SSDs

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



XG6 Series **XG6-P Series**
PCIe® / NVMe™ SSD

BG4 Series
PCIe® / NVMe™ SSD

SG6 Series
SATA SSD



BiCS FLASH™

Product image may differ from the actual product.

XG6 Series

Utilizing 96-layer BiCS FLASH™ 3D flash memory, the XG6 Series is available in an M.2 2280, single-sided form factor with a PCIe® Gen3 x4 interface, supporting the NVMe™ command set. This provides a powerful combination power efficiency and high performance, consuming 4.7 W or less with over 3,000 MB/s sequential read performance, respectively. The XG6 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) ^{*1}	Performance (up to) ^{*2}		Typical Power Consumption (W)	Operating Temperature (°C)	Dimensions H / W / L (mm)	Typical Weight (g)	Power Supply Voltage (V)
					Sequential Read (MB/s)	Sequential Write (MB/s)					
KXG60ZNV256G	-	PCIe® Gen3 x4	M.2 2280	256	3,050	1,550	4.0	0 to 85	2.23 / 22.15 / 80.15	7.0	3.3
KXG60ZNV512G				512	3,100	2,800	4.1				
KXG60ZNV1T02				1,024	3,180	2,960	4.7			7.3	

XG6-P Series

Utilizing 96-layer BiCS FLASH™ 3D flash memory, the XG6-P Series is available in capacities up to 2,048 GB and has higher sequential write bandwidth than the previous generation. This series is designed for high-end workstations, gaming systems and for cost-optimized composable data center infrastructures. The XG6-P 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) ^{*1}	Performance (up to) ^{*2}		Typical Power Consumption (W)	Operating Temperature (°C)	Dimensions H / W / L (mm)	Typical Weight (g)	Power Supply Voltage (V)
					Sequential Read (MB/s)	Sequential Write (MB/s)					
KXG60PNV2T04	-	PCIe® Gen3 x4	M.2 2280	2,048	3,180	2,920	4.7	0 to 85	2.23 / 22.15 / 80.15	7.3	3.3

BG4 Series

In a compact, single-package form factor and based on 96-layer BiCS FLASH™ 3D flash memory, the BG4 Series is designed for thin and light performance-oriented use cases, such as ultra-mobile PCs, IoT devices and data center server boot. Available in capacities up to 1 TB, this series features Host Memory Buffer (HMB), PCIe® Gen3 x4 interface and supports the NVMe™ command set. The BG4 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) ^{*1}	Performance (up to) ^{*2}		Typical Power Consumption (W)	Operating Temperature (°C)	Dimensions H / W / L (mm)	Typical Weight (g)	Power Supply Voltage (V)	
					Sequential Read (MB/s)	Sequential Write (MB/s)						
KBG40ZNS128G	-	PCIe® Gen3 x4	M.2 2230	128	2,000	800	3.4	0 to 85 (T _{SMART})	2.23 / 22.15 / 30.15	2.5	3.3	
KBG40ZNS256G				256	2,200	1,400	3.6					
KBG40ZNS512G				512			3.5					
KBG40ZNS1T02				1,024	2,300	1,800	3.7					
KBG40ZPZ128G			M.2 1620	128	2,000	800	3.0		1.30 / 16.15 / 20.15	0.85		3.3 / 1.8 / 1.2
KBG40ZPZ256G				256	2,200	1,400	3.2					
KBG40ZPZ512G				512			3.1					
KBG40ZPZ1T02				1,024	2,300	1,800	3.4					

*T_{SMART}: Composite Temperature in SMART/Health Information

SG6 Series

The SG6 Series of 6Gbit/s SATA SSDs come with 64-layer BiCS FLASH™ 3D flash memory and deliver a balance of performance and power efficiency for mainstream desktop and notebook PCs. The SG6 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) ^{*1}	Performance (up to) ^{*2}		Typical Power Consumption (W)	Operating Temperature (°C)	Dimensions H / W / L (mm)	Typical Weight (g)	Power Supply Voltage (V)
					Sequential Read (MB/s)	Sequential Write (MB/s)					
KSG60ZSE256G	-	SATA 6 Gbit/s	2.5 inch	256	550	340	2.3	0 to 70	7.20 / 70.1 / 100.41	41	5.0
KSG60ZSE512G				512		535	3.1			42	
KSG60ZSE1T02				1,024		3.5	43				
KSG60ZMV256G			M.2 2280	256	550	340	2.3	0 to 80	2.23 / 22.15 / 80.15	6.9	3.3
KSG60ZMV512G				512		535	3.1				
KSG60ZM81T02				1,024		3.5	8.3				

*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 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2³⁰ = 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, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

*2: Read and write speeds may vary depending on the host device, read and write conditions, and file size.

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

All information provided in this catalog is subject to change without any prior notice. For the latest and detail specification, please send an inquiry through the "Contact us" form in each region's website, <https://business.kioxia.com/>

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