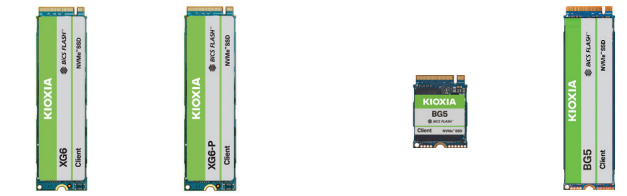
KIOXIA

# 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. They also offer a variety of capacities, performance and security options, and are well-suited for mobile computing, desktop PCs and workstations.




M.2 2280 M.2 2280 M.2 2230 M.2 2280

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

**BG5 Series**
PCIe® / NVMe™ SSD

Product image may differ from the actual product.

BiCS FLASH™

## 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) *3 | 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 | 2.23max / 22 / 80 | 7.0 | 3.3 |
| **KXG60ZNV512G** | | | | 512 | 3,100 | 2,800 | 4.1 | | | 7.3 | |
| **KXG60ZNV1T02** | | | | 1,024 | 3,180 | 2,960 | 4.7 | | | | |

## 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) *3 | 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 | 2.23max / 22 / 80 | 7.3 | 3.3 |

# BG5 Series

In a compact form factor and based on 112-layer BiCS FLASH™ 3D flash memory, the BG5 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 1,024 GB, this series features Host Memory Buffer (HMB), PCIe® 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.

| 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) *3 | Maximum Weight (g) | Power Supply Voltage (V) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Sequential Read (MB/s) | Sequential Write (MB/s) | | | | | |
| **KBG50ZNS256G** | - | PCIe® Gen4 x4 | M.2 2230 | 256 | 3,400 | 1,900 | 4.0 | 0 to 85 | 2.23max / 22 / 30 | 2.8 | 3.3 |
| **KBG50ZNS512G** | | | | 512 | 3,500 | 2,700 | 4.1 | | | 2.9 | |
| **KBG50ZNS1T02** | | | | 1,024 | | 2,900 | 4.3 | | | 3.0 | |
| **KBG50ZNV256G** | - | PCIe® Gen4 x4 | M.2 2280 | 256 | 3,400 | 1,900 | 4.0 | 0 to 85 | 2.23max / 22 / 80 | 5.8 | 3.3 |
| **KBG50ZNV512G** | | | | 512 | 3,500 | 2,700 | 4.1 | | | 5.9 | |
| **KBG50ZNV1T02** | | | | 1,024 | | 2,900 | 4.3 | | | 6.0 | |

*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 = 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, such as Microsoft Operating System and/or pre-installed 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.