# XG6-P Series

## Client SSD

Leveraging KIOXIA's 96-layer BiCS FLASH™ 3D TLC (3-bit-per-cell), XG6-P SSDs provide high storage capacity, while maintaining the promise of ultra-thin, high-speed storage with exceptional power efficiency.

It is best suited for video/CG contents production requiring hi-speed access to high-cap data, AI/machine learning applications, workstations, and high-end PCs.

XG6-P Series achieve 2,920 MB/s of sequential write performance[1], which is 32.7 % improvement vs our previous generation premium model XG5-P Series.

The 2,048 GB XG6-P SSD is available in a single-sided M.2 2280 (22 x 80mm) form factor and offers security options including TCG Pyrite Version 1.0 support for Non-SED (Self-Encrypting Drive) configurations and TCG Opal Version 2.01 support for SED.

Product image may differ from the actual product.

## Key Features

- KIOXIA 96-Layer BiCS FLASH™
- PCIe® Gen3 x4, NVMe™
- Capacities up to 2,048 GB
- M.2 2280 Single-sided
- TCG OPAL 2.01 Optional for SED

## Key Applications

- Workstation PCs
- High-End PCs
- Video/CG contents production
- AI/Machine learning

## Specifications

| Model Number | KXG60PNV2T04 | - |
|---|---|---|
| SED Model Number | - | KXG6APNV2T04 |
| **Physical** | | |
| Capacity[1] | 2,048 GB | |
| Form Factor | M.2 2280-S2 Single-sided | |
| Interface | PCIe® Gen3 x4 | |
| Interface Speed | 32 GT/s | |
| Command | NVMe™ 1.3a | |
| Memory Type | BiCS FLASH™ TLC | |
| Connector Type | M.2 M | |

# Specifications (Continued)

| Model Number | KXG60PNV2T04 | KXG6APNV2T04 |
|---|---|---|
| Capacity[1] | 2,048 GB | |
| Form Factor | M.2 2280-S2 Single-sided | |
| **Performance[2] (Up to)** | | |
| Sequential Read | 3,180 MB/s | |
| Sequential Write | 2,920 MB/s | |
| **Power Requirements** | | |
| Supply Voltage | 3.3 V ± 5 % | |
| Power Consump-tion — Active | 4.9 W typ. | |
| Power Consump-tion — L1.2 mode | 3 mW typ. | |
| **Reliability[3]** | | |
| MTTF | 1,500,000 hours | |
| **Mechanical** | | |
| Dimension (LxWxH) | 22.0mm x 80.0 mm x 2.23 mm | |
| Weight (Typ.) | 7.3 g typ. | |
| **Environmental** | | |
| Temperature | Operating : 0 to 95 °C (Controller Temperature) / 0 to 85 °C (Other Components Temperature) | |
| Temperature | Non-Operating:  -40 °C to 85 °C | |
| Shock (Operating) | 14.7 km/s2  {1.500 G} (0.5ms) | |
| Additional Features | • Device Self-test is supported.<br>• Host Controlled Thermal Management (HCTM) is supported.<br>• Strong & highly-efficient ECC named QSBC™ is supported.<br>• TCG Pyrite Version 1.00 is supported.<br>• Storage Interface Interactions Specification(SIIS) Version 1.06 is supported. | |

[1] Definition of capacity: KIOXIA Corporation 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, tested on the state of "SLC cache=ON", may vary depending on the host device, read and write conditions, and file size.

[3] MTTF (Mean Time to Failure) is not a guarantee or estimate of product life; it is a statistical value related to mean. failure rates for a large number of products which may not accurately reflect actual operation. Actual operating life of the product may be different from the MTTF.

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*Read and write speed may vary depending on the host device, read and write conditions, and file size.
*All other company names, product names, and service names mentioned herein may be trademarks of their respective companies.
*Availability of the SED model line-up may vary by region.