

## EXCERIA PRO NVMe™ SSD

*Next Generation Now*



### Capacity

1TB, 2TB

### Max Sequential Read/Write Speed<sup>1</sup>

7,300/6,400 MB/s

### Max Random Read/Write Speed<sup>2</sup>

2TB: 800,000/1,300,000 IOPS

1TB: 1,000,000/1,100,000 IOPS

### Features

BiCS FLASH™

NVMe™ 1.4 Technology

M.2 2280 Form Factor

PCIe® Gen4 x4

SSD Utility Management Software

The all-new KIOXIA EXCERIA PRO SSD Series uses next generation technology to take your high-end computing and gaming into a new realm of possibilities. Leveraging PCI Express® 4.0 technology, this updated professional-class SSD series now offers up to 2TB of capacity well-suited for both high performance desktops and notebooks needing maximum speed.

## Game-Changing Performance

Imagine up to 7,300 MB/s of sequential read speed<sup>1</sup> and up to 6,400 MB/s sequential write speed<sup>1</sup>, you have the KIOXIA EXCERIA PRO Series. Designed to reduce game loading, video editing and graphic rendering time, the EXCERIA PRO Series helps your content creation or gaming environment excel.

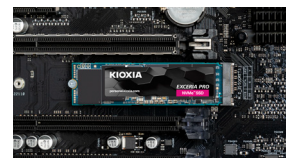


### Small and Compact for an Easy Upgrade

Featuring a thin, single-sided M.2 2280 form factor, the EXCERIA PRO SSD series plugs directly into the motherboard, reducing additional cable clutter for a sleeker and an easy system upgrade.

### PCIe® 4.0 Technology

This “hero” class KIOXIA SSD delivers powerful performance utilizing the PCIe® 4.0 and NVMe™ 1.4 technology. EXCERIA PRO SSD series push the boundaries of flash storage technology, offering enhanced real-world performance that will blow away hardcore gamers and content creators.



### Cutting-Edge 3D Flash Memory

Each EXCERIA SSD is built with BiCS FLASH™ and a vertically stacked cell structure, delivering a cutting edge storage experience.

### SSD Utility Management Software

The SSD Utility management software was designed to help your KIOXIA drive thrive and lets you be in control of maintenance, monitoring, SSD tuning and more!

We highly recommend you install and update to the latest version to maximize your drive's performance and check its Percentage Life Left using the health gauge.



## Specifications

### Physical

<b>Capacity</b> 1TB, 2TB	<b>Form Factor</b> M.2 Type 2280-S2-M
<b>Interface</b> PCI Express® Base Specification Revision 4.0 (PCIe®)	<b>Flash Memory Type</b> BiCS FLASH™ TLC
<b>Interface Maximum Speed</b> 64 GT/s (PCIe® Gen4 x4)	<b>Dimension (Max: LxWxH)</b> 80.15 mm x 22.15 mm x 2.23 mm
<b>Interface Command</b> NVMe™ Revision 1.4 command set	<b>Drive Weight</b> 2TB: 8.0g (typ.) 1TB: 7.6g (typ.)

### Performance

<b>Max Sequential Read Speed<sup>1</sup></b> 7,300 MB/s	<b>Max Sequential Write Speed<sup>1</sup></b> 6,400 MB/s
<b>Max Random Read Speed<sup>2</sup></b> 2TB: 800,000 IOPS 1TB: 1,000,000 IOPS	<b>Max Random Write Speed<sup>2</sup></b> 2TB: 1,300,000 IOPS 1TB: 1,100,000 IOPS
<b>Endurance: TBW<sup>3</sup></b> 2TB: 800TB 1TB: 400TB	<b>MTTF</b> 1.5 million hours

### Environmental

<b>Operating Temperature</b> 0 °C (Ta) to 85 °C (Tc)	<b>Storage Temperature</b> -40 °C to 85 °C
<b>Shock Resistance</b> 9.806 km/s <sup>2</sup> {1,000 G} 0.5 ms half sine wave	<b>Vibration</b> 196 m/s <sup>2</sup> {20 G} Peak, 10~2,000 Hz, (20 min / Axis) x 3 Axis
<b>Supply Voltage</b> 3.3V ± 5%	<b>Power Consumption (Active)</b> 8.9W (typ.)
<b>Power Consumption</b> PS3: 50 mW (typ.) PS4: 5 mW (typ.)	

## Compatibility

### PCI Express

Compatible with PCI Express® Base Specification Revision 4.0 and NVMe Express™ Revision 1.4 command set

### Connector Type

M.2 M key Socket

### Target Applications

Client desktops and laptops

## Additional Features

### Services and Support

5-year manufacturer's warranty

MANUFACTURER'S WARRANTY IS EFFECTIVE EITHER (I) WARRANTY PERIOD FROM THE DATE OF PURCHASE IN ITS ORIGINAL SEALED PACKAGING OR (II) FOR THE TIME PERIOD UNTIL THE "PERCENTAGE LIFE LEFT" WILL BE ZERO, WHICHEVER IS SHORTER. The "Percentage Life Left" can be found using "Health" gauge of the SSD Utility for KIOXIA products, which is available at "personal.kioxia.com/support/".

### Performance Optimization

TRIM, Idle Time Garbage Collection

### SSD Management Software

SSD Utility Management Software (Windows 10 x64)

Please visit our website for information on the required OS version at "personal.kioxia.com".

## Ordering Information

### Global Package:

#### 1TB

PN: LSE10Z001TG8  
EAN: 4582563854048

#### 2TB

PN: LSE10Z002TG8  
EAN: 4582563854055

### China Package:

#### 1TB

PN: LSE10Z001TC8  
EAN: 4582563854062

#### 2TB

PN: LSE10Z002TC8  
EAN: 4582563854079

<sup>1</sup> EXCERIA PRO SSD: Sequential speeds are measured with CrystalDiskMark 8.0.1 x64, Q=32, T=1. These values are the best values obtained in a specific test environment at KIOXIA Corporation and KIOXIA Corporation warrant neither read nor write speeds in individual devices. Read and write speed may vary depending on a device used and file size read or written.

<sup>2</sup> EXCERIA PRO SSD: 4KiB random performance is measured with CrystalDiskMark 8.0.1 x64, Q=32, T=16. These values are the best values obtained in a specific test environment at KIOXIA Corporation and KIOXIA Corporation warrant neither read nor write speeds in individual devices. Read and write speed may vary depending on a device used and file size read or written.

<sup>3</sup> EXCERIA PRO SSD: Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard; JESD219A Solid-State Drive (SSD) Endurance Workloads, July 2012, and defined for the service life.

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<sup>30</sup> = 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.

Read and write speed may vary depending on the host device, read and write conditions, and file size.

Subject to Change: While KIOXIA has made every effort at the time of publication to ensure the accuracy of the information provided herein, product specifications, configurations, prices, system/component/options availability are all subject to change without notice.

Product image may represent design model. Images for illustration purpose only. The product appearance may differ from the actual product. Actual number of flash components differs by drive capacity.

A kibibyte (KiB) means 2<sup>10</sup>, or 1,024 bytes, a mebibyte (MiB) means 2<sup>20</sup>, or 1,048,576 bytes, and a gibibyte (GiB) means 2<sup>30</sup>, or 1,073,741,824 bytes.

IOPS: Input Output Per Second (or the number of I/O operations per second)

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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