

## Informacije o proizvodu (EN)

KIOXIA SSD 1TB EXCERIA G2 LRC20Z001TG8

# KIOXIA



Tehnoteka je online destinacija za upoređivanje cena i karakteristika bele tehnike, potrošačke elektronike i IT uređaja kod trgovinskih lanaca i internet prodavnica u Srbiji. Naša stranica vam omogućava da istražite najnovije informacije, detaljne karakteristike i konkurentne cene proizvoda.

Posetite nas i uživajte u ekskluzivnom iskustvu pametne kupovine klikom na link:

<https://tehnoteka.rs/p/kioxia-ssd-1tb-exceria-g2-lrc20z001tg8-akcija-cena/>

## EXCERIA G2 NVMe™ SSD

*Boost up your PC performance*



### Capacity

500GB, 1TB, 2TB

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

2,100/1,700 MB/s

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

500GB, 1TB: 400,000/400,000 IOPS

2TB: 360,000/400,000 IOPS

### Features

BiCS FLASH™

NVMe™ 1.3c Technology

M.2 2280 Form Factor

PCIe® Gen3 x4

SSD Utility Management Software

The new 2nd generation KIOXIA EXCERIA G2 SSD Series takes performance to the next level with up to 2,100 MB/s of sequential read speed<sup>1</sup>, enabling faster boot ups, file transfers and system responsiveness. Leveraging BiCS FLASH™ 3D flash memory, this updated mainstream-class SSD series now offers up to 2TB of capacity in a M.2 2280 form factor suitable for both desktops and notebooks.

## Performance Made Affordable

The KIOXIA EXCERIA SSD series redefines mainstream storage for everyday users that feel held back by SATA-based hardware. Say goodbye to hard drive lag and get a computing experience worthy of your applications. Compared to SATA SSDs, the EXCERIA G2 SSD series delivers balanced performance and value that will transform your system.



### Small and Compact for an Easy Upgrade

Featuring a thin, single-sided M.2 2280 form factor, the EXCERIA G2 SSD series plugs directly into the motherboard, reducing additional cable clutter for a sleeker and an easy system upgrade.

### NVMe™ Technology

Why keep using an interface that was designed for hard drives? Utilizing the NVMe™ 1.3c technology, EXCERIA G2 SSD series reduce latency in your system's I/O path between your SSD and your CPU, resulting in smooth and responsive performance.



### 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 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

**Capacity**

500GB, 1TB, 2TB

**Form Factor**

M.2 Type 2280-S2-M

**Interface**

PCI Express® Base Specification Revision 3.1a (PCIe®)

**Flash Memory Type**

BiCS FLASH™ TLC

**Interface Maximum Speed**

32 GT/s (PCIe® Gen3 x4)

**Dimension (Max: LxWxH)**

80.15 mm x 22.15 mm x 2.23 mm

**Interface Command**

NVM Express™ Revision 1.3c command set

**Drive Weight**
500GB, 1TB: 6.8g (typ.)  
2TB: 7.1g (typ.)

### Performance

**Max Sequential Read Speed<sup>1</sup>**

2,100 MB/s

**Max Sequential Write Speed<sup>1</sup>**

1,700 MB/s

**Max Random Read Speed<sup>2</sup>**
500GB, 1TB: 400,000 IOPS  
2TB: 360,000 IOPS
**Max Random Write Speed<sup>2</sup>**

400,000 IOPS

**Endurance: TBW<sup>3</sup>**
500GB: 200TB  
1TB: 400 TB  
2TB: 800 TB
**MTTF**

1.5 million hours

### Environmental

**Operating Temperature**

0 °C (Ta) to 85 °C (Tc)

**Storage Temperature**

-40 °C to 85 °C

**Certification**
RoHS compliant<sup>4</sup>
**Shock Resistance**
9.806 km/s<sup>2</sup> {1,000 G} 0.5 ms half sine wave
**Vibration**
196 m/s<sup>2</sup> {20 G} Peak, 10~2,000 Hz, (20 min / Axis) x 3 Axis
**Supply Voltage**

3.3V ± 5%

**Power Consumption (Active)**
500GB, 1TB: 3.5 W (typ.)  
2TB: 5.3 W (typ.)
**Power Consumption**
PS3: 50 mW (typ.)  
PS4: 5 mW (typ.)

## Compatibility

### PCI Express

Compatible with PCI Express® Base Specification Revision 3.1a and NVMe Express™ Revision 1.3c command set

### Connector Type

M.2 M key Socket

### Target Applications

Client desktops and laptops

## Additional Features

### Services and Support

Up to 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

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

## Ordering Information

### Global Package:

#### 500GB

PN: LRC20Z500GG8  
EAN: 4582563853980

#### 1TB

PN: LRC20Z001TG8  
EAN: 4582563853997

#### 2TB

PN: LRC20Z002TG8  
EAN: 4582563854000

### China Package:

#### 500GB

PN: LRC20Z500GC8  
EAN: 4582563854017

#### 1TB

PN: LRC20Z001TC8  
EAN: 4582563854024

#### 2TB

PN: LRC20Z002TC8  
EAN: 4582563854031

<sup>1</sup> EXCERIA G2 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 G2 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 G2 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.

<sup>4</sup> KIOXIA Corporation defines "RoHS Compatible" products as products that either (i) contain no more than a maximum concentration value of 0.1% by weight in Homogeneous Materials for lead, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), polybrominated diphenyl ethers (PBDEs), bis(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP) and diisobutyl phthalate (DIBP) and of 0.01% by weight in Homogeneous Materials for cadmium; or (ii) fall within any of the application exemptions set forth in the Annex to the RoHS Directive(\*). This does not mean that Kioxia Corporation products labeled "RoHS COMPATIBLE" are entirely free of substances controlled by the RoHS Directive and does not constitute a warranty or guarantee that such products will comply with the specific laws and/or regulations adopted in any particular jurisdiction. \*RoHS Directive: KIOXIA Corporation defines "RoHS Directive" as the DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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.

Product specifications and design are subject to change without prior notice.

Product images may represent design model. Actual product may vary.

A kilobyte (KiB) means 2<sup>10</sup>, or 1,024 bytes, a megabyte (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.

To protect against accidental data loss, back up your data frequently on other storage media. KIOXIA Corporation does not warrant any data stored on the product.

For safety instructions, please visit: [personal.kioxia.com/support/](http://personal.kioxia.com/support/)

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Za najnovije informacije o ceni, dostupnim akcijama i tehničkim karakteristikama proizvoda koji se pominje u ovom dokumentu, molimo posetite našu stranicu klikom na sledeći link:

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