EXCERIA SATA SSD

Upgrade to the Future

Capacity
240GB 480GB 960GB

Max Sequential Read/Write Speed[1]
555/540 MB/s

Max Random Read/Write Speed[2]
240GB: 79,000/87,000 IOPS
480GB: 82,000/88,000 IOPS
960GB: 81,000/88,000 IOPS

Features
BiCS FLASH™
Shock Resistant
2.5-inch, 7mm Height Form Factor
SSD Utility Management Software

Upgrading from a hard disk drive (HDD) should be easy and affordable and that's where EXCERIA SATA SSD series come in. Designed to boost the speed of your desktop or notebook PC over conventional HDDs, the EXCERIA SATA SSD series leverages BiCS FLASH™, to deliver well-balanced performance, reliability, and value that will transform your desktop or mobile system.

Instant Performance Upgrade

Up your productivity with the EXCERIA SATA SSD series and enjoy faster boot ups, file transfers, and system responsiveness. Say goodbye to hard disk drive lag and get a computing experience worthy of your time.

Performance Made Affordable

Upgrading to an SSD from a conventional HDD can feel like you've purchased an entirely new system. EXCERIA SATA SSD series balance price and performance so you have enough funds left over for other.

Improved for On-the-go

Compared to hard disk drives, EXCERIA SATA SSD series also offer improved durability and power consumption, which can translate into longer battery life to keep you up and running longer.

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 240GB, 480GB, 960GB	**Form Factor** 2.5-inch, 7mm height
Interface Serial ATA (SATA)	**Flash Memory Type** BiCS FLASH™ TLC
Interface Maximum Speed 6 Gbit/s	**Dimension (Max: LxWxH)** 100.45 x 70.10 x 7.20 mm
Interface Command ATA/ATAPI Command Set-3 (ACS-3)	**Drive Weight** 240GB: 45.5g (typ.) 480GB: 45.6g (typ.) 960GB: 45.7g (typ.)

Performance

Max Sequential Read Speed[1] 555 MB/s	**Max Sequential Write Speed[1]** 540 MB/s
Max Random Read Speed[2] 240GB: 79,000 IOPS 480GB: 82,000 IOPS 960GB: 81,000 IOPS	**Max Random Write Speed[2]** 240GB: 87,000 IOPS 480GB, 960GB: 88,000 IOPS
Endurance: TBW (Total Bytes Written)[3] 240GB: 60 TB 480GB: 120 TB 960GB: 240 TB	**MTTF** 1.5 million hours

Environmental

Operating Temperature 0 °C to 65 °C	**Storage Temperature** -40 °C to 85 °C
Certification RoHS compliant[4]	**Shock Resistance** 14.7 km/s² {1500 G} 0.5 ms half sine wave
Vibration 196 m/s² {20 G} (Peak, 10 to 2,000 Hz) , (20 min / Axis) x 3 Axis	**Supply Voltage** 5 V ± 5%
Power Consumption (Active) 240GB, 480GB: 1.6W (typ.) 960GB: 1.7 W (typ.)	**Power Consumption (Idle)** 100 mW (typ.)
Power Consumption (DevSleep) 10 mW max	

Compatibility

Serial ATA (SATA)
ATA/ATAPI Command Set-3 (ACS-3) and Serial ATA revision 3.2 interface specifications supported

Connector Type
Standard SATA Power Connector

Target Applications
Client desktops and laptops

Additional Features

Services and Support
Up to 3-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:

240GB
PN: LTC10Z240GG8
EAN: 4582563851849

480GB
PN: LTC10Z480GG8
EAN: 4582563851856

960GB
PN: LTC10Z960GG8
EAN: 4582563851863

China Package:

240GB
PN: LTC10Z240GC8
EAN: 4582563851870

480GB
PN: LTC10Z480GC8
EAN: 4582563851887

960GB
PN: LTC10Z960GC8
EAN: 4582563851894

[1] EXCERIA SATA SSD: Sequential speeds are measured with ATTO v3.05, QD10. 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.

[2] EXCERIA SATA SSD: 4KiB random performance is measured with CrystalDiskMark 5.1.2 x64 QD32. 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.

[3] EXCERIA SATA SSD: Definition and conditions of TBW (Terabytes Written) are based on JEDEC standard; JESD218A, February 2011, and defined for the service life.

[4] 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^{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.

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 kibibyte (KiB) means 2^{10}, or 1,024 bytes, a mebibyte (MiB) means 2^{20}, or 1,048,576 bytes, and a gibibyte (GiB) means 2^{30}, 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/

Other company names, product names, and service names may be trademarks of third-party companies.

The line up of personal product vary by country and region.