

EXCERIA PLUS G3 microSDXC Memory Card

When Performance is the Priority



Capacity

64GB, 128GB, 256GB, 512GB, 1TB

Max Read Speed based on specific card reader¹

210 MB/s

Max Read Speed of the UHS-I SDR104 mode

100 MB/s

Max Write Speed based on specific card reader¹

150 MB/s (256GB, 512GB, 1TB)

90 MB/s (64GB, 128GB)

Max Write Speed of the UHS-I SDR104 mode

90 MB/s (256GB, 512GB, 1TB)

65 MB/s (64GB, 128GB)

Speed Class **V30 U3**  

Application Performance Class **A2**

Usage

High-Quality Recording and Photography 4K and above

KIOXIA EXCERIA PLUS G3 microSD Memory Cards reimagine performance when paired with specific card readers¹. If speed is key, EXCERIA PLUS G3 microSD memory cards with proprietary technology can deliver up to 210MB/s read and 150MB/s write when used in conjunction with specific card readers exceeding maximum UHS-I speeds².

In addition to Video Speed Class 30 (V30) and UHS Speed Class 3 (U3) classifications, the EXCERIA PLUS G3 microSD card meets Application Performance Class 2 (A2), enabling you to store and run Android applications on microSD cards at optimized levels.

¹ Please check the Lists of Specific Card Readers and Tested Card Readers (<https://personal.kioxia.com/cr4ddr.pdf>).

² When you connect a device other than the specific card reader, the maximum read/write speeds are the values operating with SDR104 mode. SDR104 mode is one of the bus interface modes defined by the SD standards.



A Dynamic Duo

If transferring files onto your PC is taking too long, KIOXIA offers a creative solution to the speed you need. When using EXCERIA PLUS G3 microSD memory cards with specific card readers transfer time can be reduced up to 52% compared to EXCERIA PLUS G2 microSD memory cards.

Ready, Set, Action!

High performance and a small size makes the EXCERIA PLUS G3 microSD memory cards a good choice for sports and action cameras, as well as drones. And move those files faster than ever with specific card reader!



Record and Play in 4K or Full HD

Capture your special moments in 4K or Full HD with your portable devices thanks to EXCERIA PLUS G3 microSD memory cards support UHS-I, UHS Speed Class 3 (U3) and Video Speed Class 30 (V30), for 4K video recording and playback.

Shoot and Record to Your Heart's Content

With up to 1TB available capacity, the EXCERIA PLUS G3 microSD memory cards can store up to 154,070 photos (18MPixel), up to 5,990 minutes of Full HD video (21Mbps), and up to 1,258 minutes of 4K video (100Mbps).



Specifications

Capacity / Dimensions

Capacity

64GB, 128GB, 256GB, 512GB, 1TB (microSDXC)

Approximate Usable Capacity*²

57.6GB, 115.2GB, 230.4GB, 460.8GB, 921.6GB

Interface

UHS-I

Dimension (LxWxH)

15.0 x 11.0 x 1.0 mm

Weight

Approx. 0.3 g

Performance

Max Read Speed based on specific card reader*¹

210 MB/s

Max Read Speed of the UHS-I SDR104 mode*¹

100 MB/s

Max Write Speed based on specific card reader*¹

150 MB/s (256GB, 512GB, 1TB)
90 MB/s (64GB, 128GB)

Max Write Speed of the UHS-I SDR104 mode*¹

90 MB/s (256GB, 512GB, 1TB)
65 MB/s (64GB, 128GB)

UHS Speed Class*³

U3

Video Speed Class*³

V30

SD Speed Class*³

C10

Application Performance Class*⁴

A2

Environmental

Operating Temperature

-25°C to 85°C (no condensation)

Certification

RoHS compliant*⁵

Waterproof

Compatible with IPX7*^{6,11}

X-ray Proof

ISO7816-1 compliant*^{7,11}

Shock Proof

Passed 5 meter drop test*^{8,11}

Overheating/Ignition Prevention

Electrical fuse is mounted*^{9,11}

ESD Immunity

Resistant to electrostatic discharge*^{10,11}

Compatibility

Target Applications

High-Quality Recording video
For action cameras, smartphones, and tablets

64GB and Over

Compatible with microSDXC supporting host devices corresponding to exFAT file system.

Others

Services and Support

5-year limited warranty

Included

SD Adapter LADP1

Copyright Protection (CPRM)

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¹ 1 MB/s is calculated as 1,000,000 bytes/s. 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. The write speed is lower than the read speed.

² Capacity is based on installed flash memory and not user available memory as part of the memory is used for management functions. Available user area are as listed above (1GB = 1,073,741,824 bytes).

³ Speed classes indicate the results under the test conditions specified by SD Association.

⁴ Application Performance Class is based on the result measured under the conditions specified by SD Association

⁵ KIOXIA 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 Directive⁶). This does not mean that KIOXIA 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.

⁶ RoHS Directive: KIOXIA 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.

⁷ According to IPX7 standard, the product (only card) can function, after it is submerged quietly and left for 30 minutes in static tap water at room temperature (15 °C to 35 °C) and in depth of 1m and then it is taken out of the water.

⁸ According to ISO7816-1 standard, the product can function, after contaminating this product on 0.1 Gy of X-ray.

⁹ The product (only card) can function, after carrying out the gravity fall of this product (only card) from 5 m in height. (Based on KIOXIA Corporation's test results.)

¹⁰ KIOXIA does not warrant that the function of the fuse in the card will be error free, nor does it warrant that any data stored on the card will remain accessible or uncorrupted. Turn off the device immediately in case the card overheats and/or emits a burning smell.

¹¹ ESD test environment stipulated by IEC61000-4-2 150-pF energy storage capacitor, 330-Ω discharge resistor, ±15-kV air discharge.

¹² KIOXIA does not warrant any data stored on the product.

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

Product specifications and design are subject to change without prior notice. Please visit our website for the latest information: personal.kioxia.com

Product availability may vary by country. Please contact your local KIOXIA support for further information.

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