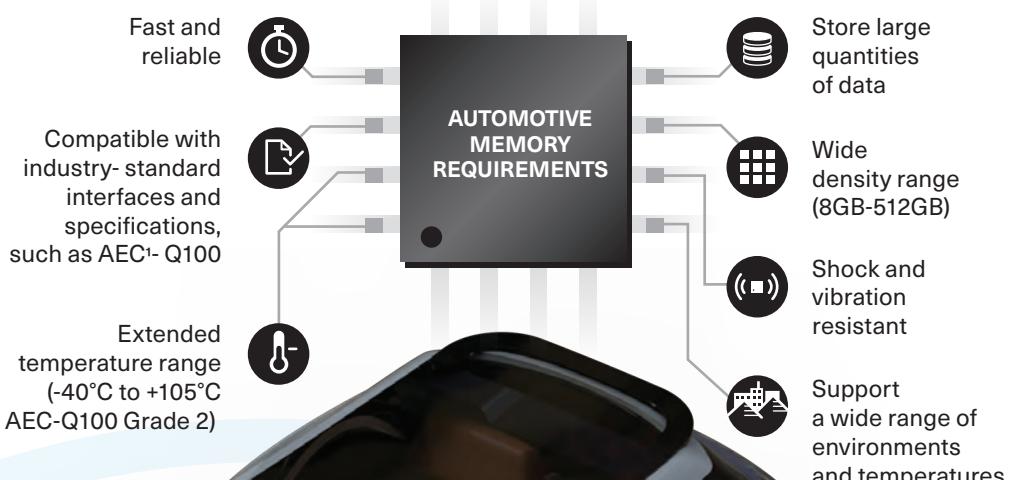


# DRIVING THE FUTURE OF AUTOMOTIVE APPLICATIONS

Anytime, anywhere connectivity has extended to the vehicle. Advanced driver assist features and infotainment systems enhance the experience but place a greater demand for in-vehicle memory solutions.

Accelerated processing power and increased data storage capacity are the keys to enabling the next generation of automotive systems.



## Automotive Functions Needing Flash Storage

- ADAS<sup>2</sup> Image Recognition
- In-Vehicle Infotainment (IVI)
- Rear Seat Entertainment
- Digital Cluster
- Navigation
- ADAS Event Data Recorder
- ADAS Route Decision

## Why UFS?

When compared to e-MMC, UFS delivers:

Higher performance for reads and writes<sup>4</sup>

Faster boot times



Better power efficiency

Support for full duplexing



Added functions such as thermal control, extended diagnostics

Higher density offerings



An improved user experience

## KIOXIA Managed Flash for Automotive



Supports a wide temperature range (-40°C to +105°C), meets AEC-Q100 Grade2 requirements, contains advanced features such as Refresh, Thermal Control and Extended Diagnosis, and offers enhanced reliability capabilities.



Supports a wide temperature range (up to 105°C), meets AEC-Q100 Grade 2 requirements and features enhanced reliability.

### DENSITIES<sup>5</sup>

16GB 32GB 64GB

128GB 256GB 512GB

8GB 16GB

32GB 64GB

KIOXIA delivers flash-based products for next-generation storage applications.

Having invented NAND flash over 30 years ago, KIOXIA is now one of the world's largest flash memory suppliers – and continues to move the technology forward.

[1] Electrical component qualification requirements defined by the AEC (Automotive Electronics Council).

[2] Advanced Driving Assistant System.

[3] e-MMC is a product category for a class of embedded memory products built to the JEDEC e-MMC Standard specification.

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

[5] Product density is identified based on the density of memory chip(s) within the Product, not the amount of memory capacity available for data storage by the end user. Consumer-useable capacity will be less due to overhead data areas, formatting, bad blocks, and other constraints, and may also vary based on the host device and application. For details, please refer to applicable product specifications.

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