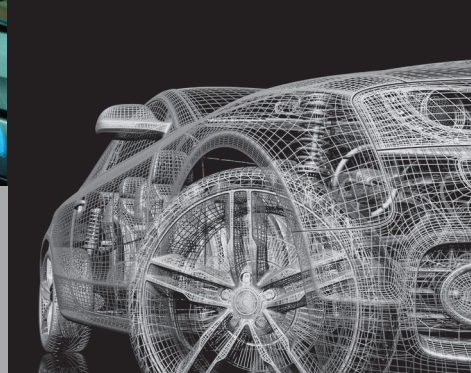
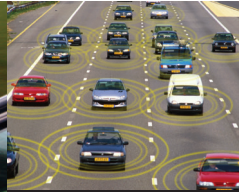


# SanDisk® Automotive Embedded Storage Solutions



**SanDisk®**  
a Western Digital brand



## Product Highlights

- High reliability, automotive grade storage solution
- Capacities: 8 - 64GB
- Automotive Grade 2 and 3 temp ranges: -40°C to 85°C / -40°C to 105°C
- e.MMC 5.1 HS400 standard
- Core voltage: 2.7V to 3.6V
- Host voltage of 1.7-1.95V or 2.7-3.6V
- Advanced memory management firmware features including ECC, wear leveling, bad block management
- Advanced automotive feature set including advanced health status monitor, enhanced power immunity, low power consumption, manual and automatic data refresh, fast boot, flexible EUDA, OEM configurable boot and RPMB partitions
- SLC cache, refresh and other features optimized for a wide variety of read and write use cases

## Product Quality and Reliability

- AEC-Q100 qualification
- Production Part Approval Process (PPAP) documentation
- Extended PCN/EOL notices
- Low DPPM with zero defect strategy, special manufacturing process and enhanced controls
- More than 27 years expertise in NAND flash development and system design
- Full vertical integration of design, manufacturing, assembly, test, reliability analysis and monitoring – supporting the entire product life-cycle

## Serving Multiple Automotive Applications

*Ideal on-board storage solution for various automotive applications:*

- Navigation/ Infotainment Systems
- Advanced Driver Assist Systems (ADAS)
- HD Mapping
- V2V/V2I Communications
- Digital Clusters
- Event/Drive Recorders
- Autonomous Drive
- Telematics and Over-the-Air Update

## Reliable Edge Storage in a Connected World

The automotive industry is on the cusp of a disruptive technology phase – cars are not simply mechanical engines but are computers on wheels driving a next generation of hardware and software requirements. As cars become connected and autonomous, massive amounts of data are being created and consumed. Reliable, high capacity managed NAND is the ideal solution for this data to be stored and analyzed. SanDisk offers a proven portfolio of automotive grade products designed for the evolving requirements of the connected automotive market.

Vertically integrated, SanDisk owns all critical steps of the design and production process – ensuring industry leading quality and reliability. Managed NAND solutions from SanDisk leverage over 27 years of flash storage innovation and over 5,000 patents. SanDisk Automotive flash storage solutions and support provide reliability, performance and peace of mind that enable next generation advanced automotive applications.

For detailed product information, please contact SanDisk sales or distribution.



## Ordering Information for Automotive grade e.MMC

### SanDisk Automotive e.MMC

Part No	Capacity <sup>1</sup>	Package mm	Seq R/W <sup>2</sup>	Random R/W <sup>2</sup>	Data Retention	Op temp Range	Availability
SDINBDG4-8G-XA	8GB	11.5x13x0.8	300/28 MB/s	17K/5.5K IOPS	15yr@55°C Fresh	-40°C to 85°C	—
SDINBDG4-16G-XA	16GB	11.5x13x0.8	300/56 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 85°C	—
SDINBDG4-32G-XA	32GB	11.5x13x1.0	300/112 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 85°C	—
SDINBDG4-64G-XA	64GB	11.5x13x1.2	300/112 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 85°C	—
SDINBDG4-8G-ZA	8GB	11.5x13x0.8	300/28 MB/s	17K/5.5K IOPS	15yr@55°C Fresh	-40°C to 105°C	—
SDINBDG4-16G-ZA	16GB	11.5x13x0.8	300/56 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 105°C	—
SDINBDG4-32G-ZA	32GB	11.5x13x1.0	300/112 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 105°C	—
SDINBDG4-64G-ZA	64GB	11.5x13x1.2	300/112 MB/s	25K/10K IOPS	15yr@55°C Fresh	-40°C to 105°C	—

<sup>1</sup> 1GB=1,000,000,000 bytes. Actual user storage less.

<sup>2</sup> Based on internal testing; performance may vary depending upon drive capacity, file attributes, host device, OS and application.

### Contact Information

For all inquiries, please email:  
oemproducts@sandisk.com

For more information, please visit:  
www.sandisk.com

**SanDisk®**  
a Western Digital brand

### Western Digital Technologies, Inc.

951 SanDisk Drive | Milpitas | CA 95035 | USA

Western Digital Technologies, Inc. is the seller of record and licensee in the Americas of SanDisk® products.

©2016 Western Digital Corporation or its affiliates. All rights reserved. SanDisk is a trademark of Western Digital Corporation or its affiliates, registered in the United States and other countries. All other trademarks are the property of their respective holder(s).

AUTO\_EMBEDDED\_BRIEF\_V4\_092916

SanDisk®, a Western Digital brand, is expanding the possibilities of storage. Our products are in the world's leading-edge data centers, advanced mobile devices and laptops, and trusted by consumers worldwide. At SanDisk, we're expanding the possibilities of data storage. For more than 27 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.