# SanDisk Automotive Embedded Storage Solutions




### Product Highlights

- Capacities: 4 – 32GB
- Operating Temp Range: -40°C to 85°C
- e.MMC 4.51 HS200 standard
- Supports up to 2 boot/2 user partitions
- Operating voltage: 2.7V to 3.6V
- Enhanced power immunity
- Advanced memory management firmware features including ECC, wear leveling, bad block management

### Additional Support and Advantages

- AEC-Q100 qualification
- Production Part Approval Process (PPAP) documentation
- Extended PCN/EOL notices
- Lower target DPPM, special manufacturing process and enhanced controls
- Ideal on board storage solution for various use cases: 3D/HD maps, larger OS, apps data, data caching, data collection, security/backup and more
- More than 25 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

- Navigation/ Infotainment systems
- Advanced Driver Assist Systems
- Advanced HMI
- V2V/V2I communication
- Digital Cluster
- Drive Recorders
- Autonomous Drive
- Vehicle Gateways

## Reliable Edge Storage in a Connected World

As cars are becoming intelligent and more connected, data creation and consumption in the car is growing significantly. Driven by the demands of detailed HD/3D maps, large OS, rich graphics and advanced HMIs, automotive OEMs and Tier 1s are utilizing high capacity managed NAND storage solutions. In addition data created by various sensors need to be stored and analyzed hence requiring fast processors and efficient reliable storage. SanDisk offers a proven portfolio of commercial and automotive grade products optimized for the requirements of the connected automotive market. As storage becomes a critical component in next-generation automotive applications, SanDisk is partnering with customers developing in car systems with cost effective storage solutions.

Vertically integrated, SanDisk controls all critical steps of the design and production process – ensuring industry leading quality and technology. Managed NAND solutions from SanDisk leverage over 25 years of flash storage innovation and over 5,000 patents.

With our broad ecosystem partnerships, SanDisk parts are validated on major chipsets, supporting shorter time to market. SanDisk global footprint provides sales, marketing and technical support team coverage at customer sites.

SanDisk Automotive flash storage solutions and support provide reliability, performance and peace of mind that enable next generation advanced automotive applications.



## Ordering Information for Automotive grade e.MMC

| SanDisk Automotive e.MMC | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Part No** | **Capacity[1]** | **Package mm** | **Seq R/W[2]** | **Random R/W[2]** | **Data Retention** | **Op temp Range** | **Availability** |
| SDIN8DE2-4G-XA | 4GB(1D) | 11.5x13x1.0 | 17/90 MB/s | 500/4.5K IOPS | 10yr@55°C Fresh | -40°C to 85°C | Shipping now |
| SDIN8DE1-8G-XA | 8GB(1D) | 11.5x13x1.0 | 17/90 MB/s | 850/4.5K IOPS | 10yr@55°C Fresh | -40°C to 85°C | Shipping now |
| SDIN8DE2-16G-XA | 16GB(2D) | 11.5x13x1.0 | 30/115 MB/s | 1.2K/4.5K IOPS | 10yr@55°C Fresh | -40°C to 85°C | Shipping now |
| SDIN8DE4-32G-XA | 32GB(4D) | 11.5x13x1.0 | 37/120 MB/s | 1.2K/4.5K IOPS | 10yr@55°C Fresh | -40°C to 85°C | Shipping now |

[1] 1GB=1,000,000,000 bytes. Actual user storage less.

[2] Based on internal testing; performance may vary depending upon drive capacity, file attributes, host device, OS and application.

## Contact Information

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At SanDisk, we're expanding the possibilities of data storage. For more than 25 years, SanDisk's ideas have helped transform the industry, delivering next generation storage solutions for consumers and businesses around the globe.