

SanDisk® Industrial iNAND® Embedded Flash Drives

Providing Trusted Reliability and Endurance for Embedded Platforms



SanDisk®

Product Highlights

- Operating Temp Range: -40°C to 85°C
- Broad portfolio: 4GB to 64GB
- Extended product life cycle
- High endurance
- Advanced memory management FW features including enhanced power immunity, ECC, wear leveling, bad block management
- EUDA support
- Operating voltage: 2.7V to 3.6V

Business Benefits

- Drives faster time to market with quick system integration
- Enables real-time analytics at the edge
- Reduces network traffic
- Improves connected user experience
- Provides reliable local storage, as primary or backup
- Lowers TCO per system
- Optimizes system performance

Serving Industrial Applications

- Surveillance
- Transportation
- Industrial PCs
- Factory Automation
- Embedded PCs
- Networking
- Medical

Simplify Embedded Storage at the Edge

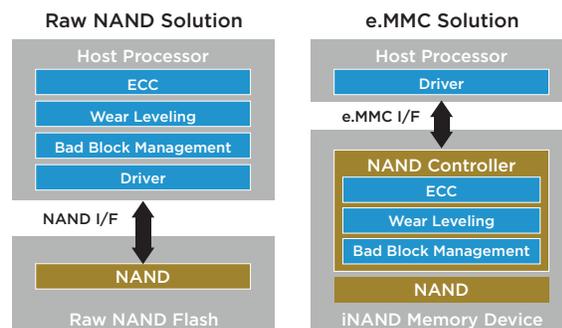
The convergence of ubiquitous connectivity and compute capability is driving an exponential growth in connected devices and connected sensors, generating incredible volumes of data and enabling vast new types of transformative applications and business models.

As embedded platforms rapidly grow in capability and complexity, developers need a storage solution that simplifies the increasingly complex management of NAND flash devices, while enabling quick system integration for faster time to market.

Leveraging more than 25 years of expertise in NAND flash memory and storage systems, SanDisk Industrial iNAND embedded flash devices deliver edge solutions for code and mass storage, enabling industrial applications that require high reliability and durability, across a wide range of operational requirements.

Designed and tested to withstand the most demanding conditions, and featuring an advanced flash memory management FW which includes enhanced power immunity, ECC, wear leveling, and bad block management, data intensive applications can rely on SanDisk Industrial iNAND products to capture every critical moment, log each event, and to ensure quality of service to end-users.

These high endurance solutions offer extended product life cycles which can reduce total cost of ownership (TCO) per system by eliminating costly redesigns and requalifications, and minimizing unnecessary maintenance calls.





SanDisk Industrial iNAND Embedded Flash Devices

Specifications	iNAND Industrial XT	iNAND Industrial	iNAND Industrial w/EUDA
Capacity¹	4GB - 64GB	4GB - 64GB	8GB - 64GB
Interface	e.MMC 4.51+ HS200	e.MMC 4.51+ HS200	e.MMC 4.41+
NAND Flash Technology	X2 (MLC)	X2 (MLC)	X2 (MLC)
Flash Management	Embedded Firmware		
Operating Voltage	Core: 3.3V; IO: 3.3V, 1.8V		
Operating Temp	-40°C to 85°C	-25°C to 85°C	-25°C to 85°C
Performance²			
Sequential W/R	Up to 37/120 MB/s	Up to 37/120 MB/s	Up to 20/90 MB/s
Random W/R	Up to 1.2K/4.5K IOPS	Up to 1.2K/4.5K IOPS	Up to 200/2K IOPS
Package (mm)			
11.5x13x1.4mm	4GB - 32GB	4GB - 64GB	8GB - 64GB
12x16x1.4mm	64GB	—	—

Ordering Information

Capacity	iNAND Industrial XT	iNAND Industrial	iNAND Industrial w/EUDA
4GB	SDIN8DE2-4G-XI	SDIN8DE2-4G-I	—
8GB	SDIN8DE1-8G-XI	SDIN8DE1-8G-I	SDIN7DU2-8G-I
16GB	SDIN8DE2-16G-XI	SDIN8DE2-16G-I	SDIN7DU2-16G-I
32GB	SDIN8DE4-32G-XI	SDIN8DE4-32G-I	SDIN7DU2-32G-I
64GB	SDIN8CE4-64G-XI	SDIN8DE4-64G-I	SDIN7DU2-64G-I

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.

The SanDisk Advantage

- More than 25 years expertise in NAND flash development and system design
- Vertically Integrated: memory chip & controller design, memory manufacturing, product assembly and testing
- World Class technical and design support

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.