SanDisk® Industrial Grade SD™ and microSD™ Cards
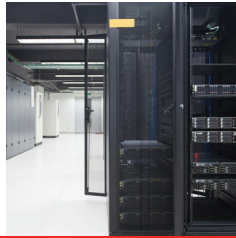
Providing Trusted Reliability and Endurance

Product Highlights

- Operating Temp Range: -40°C to 85°C
- High endurance: Up to 128 Terabytes Written
- Broad portfolio: 8GB to 64GB
- Extended product life cycle
- Advanced memory management FW features including power immunity, ECC, wear leveling
- Durable design: water proof, shock and vibration proof, X-ray proof, magnet proof, impact proof*
- Operating voltage: 2.7V to 3.6V

Business Benefits

- Delivers lower system TCO
- Enables real-time analytics at the edge
- Reduces network traffic
- Provides reliable local backup
- Ensures high availability of system

Serving Industrial Applications

- Surveillance
- Transportation
- Industrial PC
- Factory Automation
- Networking
- Medical

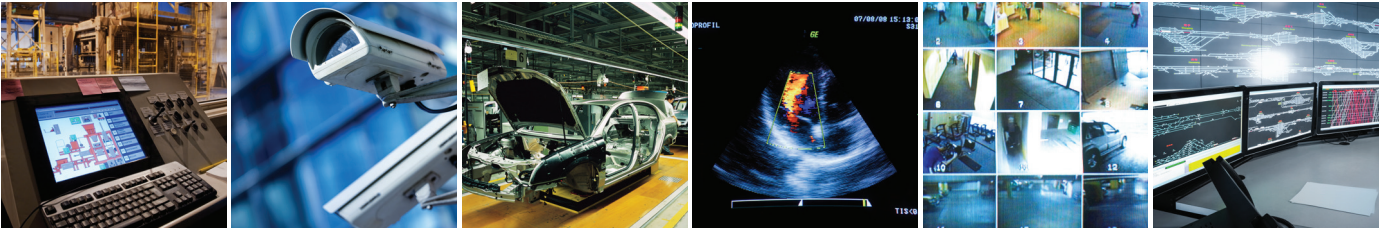## Reliable Edge Storage in a Connected World

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.

In addition to capturing this data locally as primary or backup storage, edge storage devices such as SanDisk Industrial Cards will maximize network efficiency and enable systems to analyze the data and act on the results in real-time.

Leveraging more than 25 years of expertise in NAND flash memory and storage systems, SanDisk Industrial Grade SD and microSD cards deliver edge storage solutions for industrial applications requiring high reliability, durability, and high intensity recording, across a wide range of operational requirements.

Designed and tested to withstand the most demanding conditions, and featuring an advanced memory management FW which includes power immunity, ECC, and wear leveling, data intensive applications can rely on SanDisk Industrial 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 Card Products

Specifications	Industrial XT SD Cards	Industrial SD Cards	Industrial microSD Cards
Capacity[1]	8GB – 64GB	8GB – 64GB	8GB – 64GB
Interface	SDA 3.0, High-Speed	SDA 3.0, High-Speed	SDA 3.0, High-Speed
NAND Flash Technology	X2 (MLC)	X2 (MLC)	X2 (MLC)
Operating Temp	-40°C to 85°C	-25°C to 85°C	-25°C to 85°C
Performance[2]	Speed Class 10 Sequential W/R: Up to 20/20MB/s	Speed Class 10 Sequential W/R: Up to 20/20MB/s	Speed Class 10 Sequential W/R: Up to 20/20MB/s
Endurance[3]	Up to 128 TBW	Up to 128 TBW	Up to 128 TBW

Ordering Information

Capacity	Industrial XT SD Cards	Industrial SD Cards	Industrial microSD Cards
8GB	SDSDAF-008G-XI	SDSDAF-008G-I	SDSDQAF-008G-I
16GB	SDSDAF-016G-XI	SDSDAF-016G-I	SDSDQAF-016G-I
32GB	SDSDAF-032G-XI	SDSDAF-032G-I	SDSDQAF-032G-I
64GB	SDSDAF-064G-XI	SDSDAF-064G-I	SDSDQAF-064G-I

* See **www.sandisk.com/proof** for additional information

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

[2] Based on internal testing; performance may be lower depending on host device, usage and other factors. 1MB=1,000,000 bytes.

[3] Approximations based on SanDisk internal metrics that quantifies how much data can be written to a card in its lifespan expressed in Terabytes Written (TBW), with write application of 1

The SanDisk Advantage

- More than 25 years expertise in NAND flash development and system design
- Vertically Integrated
- World Class technical and design support
- BOM control with PCN support

Contact information

For all inquiries, please email:
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For more information, please visit:
www.sandisk.com

SanDisk

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.

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