SanDisk® Industrial Grade SD™ and microSD™ Cards

Providing Trusted Reliability and Endurance

Now with New Features and Increased Endurance



Product Highlights

- Operating Temp Range: -25°C to 85°C and -40°C to 85°C
- High endurance: Up to 192 Terabytes Written
- Broad portfolio: 8GB to 128GB
- Extended product life cycle
- Advanced memory management FW features power immunity, auto/manual read refresh, ECC, wear leveling
- New suite of features to enhance reliability and utility, including health status meter, programmable ID, Host lock (card ownership lock), secure FFU, Dynamic Bit Flip Protection
- 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
- Maximize system availability with health status meter, ensuring timely preventative maintenance

Serving Industrial Applications

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

Reliable Edge Storage in a Connected World

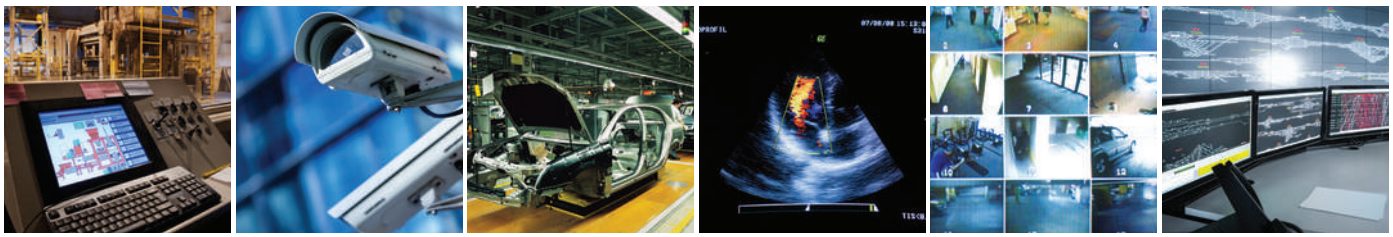
The convergence of ubiquitous connectivity and compute capability is driving an exponential growth in connected devices and connected sensors, generating incredible volumes of data and enabling vast new types of transformative applications and business models.

In addition to capturing this data locally as primary or back-up 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 28 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, auto/manual read refresh, 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 XI SD Cards**	**Industrial SD Cards**	**Industrial microSD Cards**	**Industrial XI microSD Cards**
Capacity[1]	8GB – 64GB	8GB – 64GB	8GB – 128GB	8GB – 128GB
Interface	SDA 3.01 UHS-I (SDR104)	SDA 3.01 UHS-I (SDR104)	SDA 3.01 UHS-I (SDR104)	SDA 3.01 UHS-I (SDR104)
NAND Flash Technology	MLC	MLC	MLC	MLC
Operating Temp	-40°C to 85°C	-25°C to 85°C	-25°C to 85°C	-40°C to 85°C
Performance[2]	Speed Class 10 U1	Speed Class 10 U1	Speed Class 10 U1	Speed Class 10 U1
Sequential W/R[2]	Up to 50/80 MB/s	Up to 50/80 MB/s	Up to 50/80 MB/s	Up to 50/80 MB/s
Endurance[3]	3K	3K	3K	3K

Ordering Information				
Capacity	**Industrial XI SD Cards**	**Industrial SD Cards**	**Industrial microSD Cards**	**Industrial XI microSD Cards**
8GB	SDSDAF3-008G-XI	SDSDAF3-008G-I	SDSDQAF3-008G-I	SDSDQAF3-008G-XI
16GB	SDSDAF3-016G-XI	SDSDAF3-016G-I	SDSDQAF3-016G-I	SDSDQAF3-016G-XI
32GB	SDSDAF3-032G-XI	SDSDAF3-032G-I	SDSDQAF3-032G-I	SDSDQAF3-032G-XI
64GB	SDSDAF3-064G-XI	SDSDAF3-064G-I	SDSDQAF3-064G-I	SDSDQAF3-064G-XI
128GB	—	—	SDSDQAF3-128G-I	SDSDQAF3-128G-XI

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

Contact information

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Playing a critical role in the way users create, keep, and access data, the SanDisk brand has led flash memory innovation for decades and continues to push the boundaries even further through next-generation flash technologies and devices. From mobile and compute devices, to applications in automotive, connected home and industrial/IoT markets, SanDisk-branded embedded and removable flash storage solutions are trusted by businesses and consumers alike to deliver the possibilities of data.

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