

SanDisk® Industrial Grade SD™ and microSD™ Cards

Providing Trusted Reliability and Endurance



Product Highlights

- Operating Temp Range: -25°C to 85°C and -40°C to 85°C
- High endurance: Up to 384 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
- Advanced 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

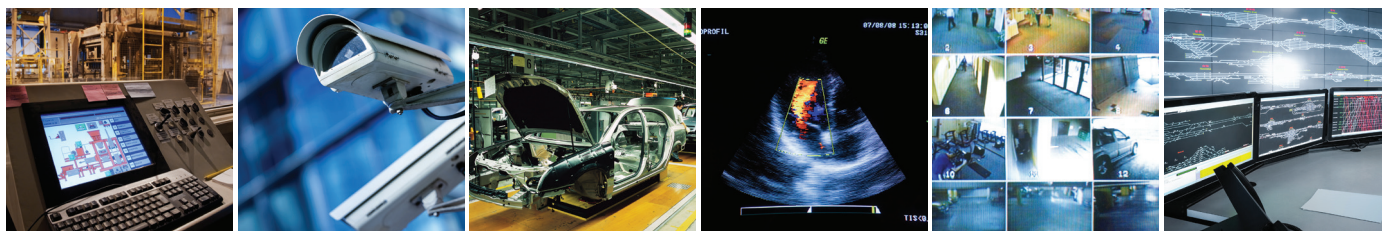
The convergence of ubiquitous connectivity and compute capability is driving an exponential growth in connected devices and connected sensors, generating incredible volumes of data and enabling vast new types of transformative applications and business models.

In addition to capturing this data locally as primary or 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 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 XI microSD Cards	Industrial microSD Cards
Capacity¹	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	-40°C to 85°C	-25°C to 85°C
Performance²	Speed Class 10 U1	Speed Class 10 U1	Speed Class 10 U1	Speed Class 10 U1
Sequential W/R²	Up to 50/80 MB/s	Up to 50/80 MB/s	Up to 50/80 MB/s	Up to 50/80 MB/s
Endurance³	3K	3K	3K	3K

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

Western Digital has close to 30 years of expertise in NAND flash development and system design. With a vertically integrated business model, SanDisk products come with world-class technical and design support, as well as BOM control with PCN support.

Contact Information

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