Western Digital.

Industrial Grade Extended Temperature IX QD334 microSD Card



Reliable Removable Edge Storage for Industrial and IoT Applications

The convergence of ubiquitous connectivity and computing capability is driving exponential growth in connected devices, generating incredible volumes of data and enabling new types of transformative applications and business models. In addition to capturing the data locally as primary or backup storage, edge storage devices such as Western Digital Industrial SD and microSD cards can help maximize network efficiency and enable systems to analyze the data and act on the results in real-time.

Leveraging close to 30 years of expertise in NAND flash memory and storage systems, Western Digital Industrial Grade SD and microSD cards deliver edge storage solutions for industrial and IoT 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 firmware (FW), which includes power immunity, auto/manual read refresh, ECC, and wear leveling, data-intensive applications can rely on Western Digital 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 requalification, and minimizing unnecessary maintenance calls.

IX QD 334 is a high endurance (30K P/E cycle, up to 1920 TBW) microSD card specifically designed to meet the endurance, security, performance needs and environmental requirements for a wide range of industrial and IoT applications.

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

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

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
- Digital Signage
- Internet of Things

Features:	
Capacity[1]	8GB to 64GB
Interface	SD5.1 UHS-I 104
NAND Flash Technology	SLC
Operating Temp	-40°C to 85°C
Performance[1]	Speed Class 10, U3
Sequential W/R[1]	50/90 MB/s
Endurance (P/E Cycle)[2]	30K
Endurance (TBW)	Up to 1920 (64 GB)
Data Retention	Up to 10 years for fresh devices at 55°C
Additional Features	Device Health Status, Programmable String, Host Lock, Secure FW upgrade

Ordering Information:	
Capacity	
8GB	SDSDQED-008G-XI
16GB	SDSDQED-016G-XI
32GB	SDSDQED-032G-XI
64GB	SDSDQED-064G-XI

Contact Information

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