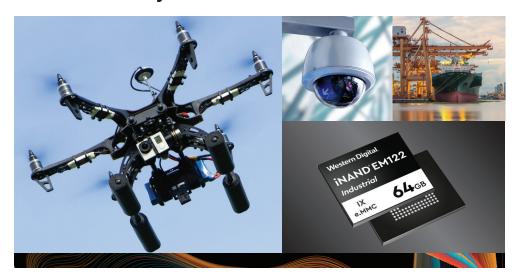
Western Digital_® iNAND[®] IX EM122[®] Industrial Embedded Flash Devices

Proven Reliability and Endurance for Embedded Platforms



Western Digital iNAND IX EM122 EFD^a Industrial embedded flash devices provide high reliability and endurance for industrial applications across a wide range of operational requirements.

Designed and tested to withstand demanding environmental conditions, these industrial-grade flash devices feature advanced flash memory management firmware to provide enhanced power immunity, ECC, wear leveling, and bad block management. Data intensive applications can rely on iNAND IX EM122 EFD^a Industrial products to capture every critical moment, log each event, and to ensure quality-of-service to end-users.

The Smart Partitioning feature in the iNAND IX EM122 EFD^a Industrial flash devices allows Boot partitions, RPMB, multiple General Purpose Partitions, User Data Area and Enhanced User Data Area, providing OEMs the flexibility to choose different attributes on a single device depending on storage requirements.

iNAND IX EM122 EFD ^a Industrial Embedded Flash Drive			
Specification	Commercial	Industrial Wide Temp	Industrial Extended Temp
Capacity¹	8GB to 64GB		
Interface	eMMC 5.1 HS400		
NAND Flash Technology	X2 MLC		
Operating Voltage	Core voltage (VCC): 2.7-3.6V; I/O (VCCQ) voltage: 1.7-1.95V or 2.7-3.6V		
Operating Temp	-25°C - 85°C	-25°C - 85°C	-40°C - 85°C
Performance			
Sequential Read/Write (MB/s)	Up to 300/170		
Random Read/Write (IOPS)	Up to 25K/15K		
Form Factor (mm)			
8GB - 16GB	11.5×13×0.8mm		
32GB	11.5×13×1.0mm		
64GB	11.5×13×1.2mm		
Ordering Information	CL EM122	IX EM122 Wide Temp	IX EM122 Extended Temp
8GB	SDINBDG4-8G	SDINBDG4-8G-12	SDINBDG4-8G-XI2
16GB	SDINBDG4-16G	SDINBDG4-16G-I2	SDINBDG4-16G-XI2
32GB	SDINBDG4-32G	SDINBDG4-32G-12	SDINBDG4-32G-XI2
64GB	SDINBDG4-64G	SDINBDG4-64G-12	SDINBDG4-64G-XI2

Key Features and Benefits

Product Highlights

- Operating Temp Range: -40°C to 85°C on Industrial Extended-Temperature SKUs; -25°C to 85°C on Commercial and Industrial SKUs
- Broad portfolio: 8GB to 64GB
 MLC based eMMC
- Extended product life cycle for industrial-grade applications
- Advanced controller built for endurance and reliability
- High endurance: up to 3K P/E cycles in MLC
- Smart Partitioning, Advanced Health Report and Manual Refresh (Industrial Grade)
- Enhanced User Data Area (EUDA)
- 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
- Enables cloud augmentation, reduces network traffic
- Improves connected user experience
- Provides reliable local storage, as primary or backup
- Optimizes system performance

Serving Industrial Applications

- Industrial boards and PCs
- Factory automation
- Medica
- Smart meters/utilities
- Smart buildings/homes
- loT gateways
- Surveillance
- Drones
- SOM
- Transportation
- Networking

 1 1 GB = 1,000,000,000 bytes. Actual user capacity less. a Formerly known as iNAND 7250

Western Digital.

Contact Information

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PB02-iNAND-IX_EM122EFD-US-EN-040820

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S40FC004C1B2I00300 SDINBDG4-8G SDINBDG4-8G-XI1 THGBMNG5D1LBAIL SDINBDG4-64G-XI1 SDINADF4-128G SDINBDG4-8G-XA SDINBDG4-32G-XI1 SDINBDG4-32G-II SDINBDG4-64G SDINBDG4-64G-ZA GLS85VM1032C-M-I-BZYE-ND231 GLS85VM1008Q-S-I-BZYE-ND235 GLS85VM1008E-S-I-BZYE-ND237 GLS85VM1008C-M-I-LFWE-ND230 GLS85VM1008C-M-I-BZYE-ND231 THGBMJG7C1LBAIL THGBMJG8C2LBAIL MTFC32GAZAQHD-WT TR MTFC32GAZAQHD-WT MTFC32GAZAQHD-WT MTFC32GAZAQHD-AAT MTFC8GAMALGT-AIT MTFC16GAPALNA-AIT MTFC4GACAJCN-1M WT MTFC64GAPALBH-AAT MTFC8GAKAJCN-1M WT MTFC4GLGDQ-AIT A SDINADF4-128G-H SDINBDA4-256G SDINBDA6-256G-ZA SDINBDG4-16G-XI2 SDINBDG4-32G-XI2 SDINBDG4-16G-XI1 SDINBDG4-8G-IIT SDINADF4-64G-H SDINBDA4-128G S40FC004C1B2C00000 S40FC004C1B1C00000 S40FC004C1B1I00000 S40FC004C1B1I00000 S40FC004C1B1I00000 S40FC004C1B1I00000 SH9MCGP1ATI01 SH9MBGP1ATI01 SFEM128GB1ED1TO-I-7G-111-STD SFEM080GB1ED1TO-I-8H-11P-STD SFEM064GB1ED1TO-I-6F-111-STD