

Western Digital® iNAND® IX EM132¹ Industrial Embedded Flash Devices

PRODUCT BRIEF

Specifications

	16GB	32GB	64GB	128GB	256GB
Interface	eMMC 5.1 HS400	eMMC 5.1 HS400	eMMC 5.1 HS400	eMMC 5.1 HS400	eMMC 5.1 HS400
Form Factor (mm)	11.5mm x 13mm x 1.0mm	11.5mm x 13mm x 1.0mm	11.5mm x 13mm x 1.0mm	11.5mm x 13mm x 1.0mm	11.5mm x 13mm x 1.2mm
NAND Flash Technology	3D NAND BiCS3 64L	3D NAND BiCS3 64L	3D NAND BiCS3 64L	3D NAND BiCS3 64L	3D NAND BiCS3 64L
Formatted Capacity ²	16GB	32GB	64GB	128GB	256GB
Operating Voltage					
Core Voltage (VCC):	2.7–3.6V	2.7–3.6V	2.7–3.6V	2.7–3.6V	2.7–3.6V
I/O (VCCQ) Voltage	1.7–1.95V or 2.7–3.6V	1.7–1.95V or 2.7–3.6V	1.7–1.95V or 2.7–3.6V	1.7–1.95V or 2.7–3.6V	1.7–1.95V or 2.7–3.6V
Operating Temperature					
Industrial Wide Temperature	–25°C to 85°C	–25°C to 85°C	–25°C to 85°C	–25°C to 85°C	–25°C to 85°C
Industrial Extended Temperature		–40°C to 85°C	–40°C to 85°C	–40°C to 85°C	–40°C to 85°C
Performance ³					
Sequential Read/Write (MB/s)	Up to 310/150	Up to 310/150	Up to 310/150	Up to 310/150	Up to 310/150
Random Read/Write (IOPS)	Up to 20K/12.5K	Up to 20K/12.5K	Up to 20K/12.5K	Up to 20K/12.5K	Up to 20K/12.5K
Write Endurance					
Total Terabytes Written (TBW)	Up to 693TBW				
Ordering Information					
Commercial Grade	SDINBDA6–16G	SDINBDA6–32G	SDINBDA6–64G	SDINBDA6–128G	SDINBDA6–256G
Industrial Wide Temperature	SDINBDA6–16G-I1	SDINBDA6–32G-I1	SDINBDA6–64G-I1	SDINBDA6–128G-I1	SDINBDA6–256G-I1
Industrial Extended Temperature		SDINBDA6–32G-XI1	SDINBDA6–64G-XI1	SDINBDA6–128G-XI1	SDINBDA6–256G-XI1

Footnotes:

¹ Formerly known as iNAND 7550I.
² 1 GB = 1,000,000,000 bytes, 1TB= 1 trillion bytes. Actual user capacity may be less due to operating environment.
³ Performance will vary by capacity point or with the changes in useable capacity. Consult product manual for further details.

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