

Western Digital® iNAND® MC EM131^a Embedded Flash Drive

Performance | Endurance | Scalability



Enhanced performance, high capacity and exceptional endurance. A 3D NAND e.MMC flash storage solution for mid and high-end mobile devices.

The iNAND MC EM131^a EFD (Embedded Flash Device) is based on our latest 3D NAND technology and the 4th generation SmartSLC architecture. Combining enhanced performance with the mature e.MMC interface, iNAND MC EM131^a EFD provides a better user experience for launching applications, downloading and capturing high-resolution videos. With up to 256GB¹ capacity in a small form factor, iNAND MC EM131^a EFD is designed for mid and high-end mobile devices as well as thin-and-light compute devices².

Specifications			
Capacity ¹	Package Size	e.MMC Version	Ordering Information
32GB	11.5×13×1.0mm	5.1 HS400	SDINBDA4-32G
64GB	11.5×13×1.0mm	5.1 HS400	SDINBDA4-64G
128GB	11.5×13×1.0mm	5.1 HS400	SDINBDA4-128G
256GB	11.5×13×1.0mm	5.1 HS400	SDINBDA4-256G

¹ 1 GB = 1,000,000,000 bytes. Actual user capacity less.

² Compatible with Android™, Chrome, and Windows® mobile operating systems.

³ Based on internal testing. Performance may vary depending on host device.

⁴ Varies by capacity. According to internal tests as shown in WDC's data sheet of 7550 and 7232, iNAND® 7550 has demonstrated 62% (for 64GB only), 135% and 275% (for 128GB and 64GB only) increase on SW, RR and RW performance over iNAND®7232.

a: Formerly known as iNAND® 7550

Key Benefits

Performance²

- Up to 260MB/s Sequential Write performance: 60% improvement over prior generation, enabling users to download and store a 2-hour HD movie (5GB) in 19 seconds³
- Faster Random Read performance using e.MMC Command Queue mechanism (CMDQ): 135% improvement over prior generation⁴
- Faster Random Write performance: 275% improvement over prior generation⁴

Reliability

- Power Immunity: 4th generation SmartSLC technology ensures data integrity and backup in case of a power event
- Enhanced endurance: 80% TBW improvement over prior generation

Scalability

- Scales e.MMC to the highest capacity available
- A wide range of capacities allow designers to scale within a single foot print: 32GB to 256GB in JEDEC 11.5×13×1.0mm package

Main Features

- JEDEC e.MMC 5.1 standard
- Gen4 SmartSLC technology
- Secure Write Protect
- Advanced Usage Diagnostics with faster failure analysis
- Device Diagnostic Report (Gen4)
- Encrypted Field Firmware Upgrade (FFU)
- Increased RPMB partition size

Western Digital.

Contact Information

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