

# Western Digital® iNAND® MC EM131<sup>a</sup> 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<sup>a</sup> 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<sup>a</sup> EFD provides a better user experience for launching applications, downloading and capturing high-resolution videos. With up to 256GB<sup>1</sup> capacity in a small form factor, iNAND MC EM131<sup>a</sup> EFD is designed for mid and high-end mobile devices as well as thin-and-light compute devices<sup>2</sup>.

Specifications			
Capacity <sup>1</sup>	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

<sup>1</sup> 1 GB = 1,000,000,000 bytes. Actual user capacity less.

<sup>2</sup> Compatible with Android™, Chrome, and Windows® mobile operating systems.

<sup>3</sup> Based on internal testing. Performance may vary depending on host device.

<sup>4</sup> 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

### Performance<sup>2</sup>

- 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 seconds<sup>3</sup>
- Faster Random Read performance using e.MMC Command Queue mechanism (CMDQ): 135% improvement over prior generation<sup>4</sup>
- Faster Random Write performance: 275% improvement over prior generation<sup>4</sup>

### 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

For all inquiries, please email:

**OEMProducts@WDC.com**

For more information, please visit:

**www.WesternDigital.com**

Western Digital Corporation | 951 SanDisk Drive | Milpitas | CA 95035 | USA

Western Digital Technologies, Inc. is the seller of record and licensee in the Americas of SanDisk® products.

©2018 Western Digital Corporation or its affiliates. All rights reserved. SanDisk is a trademark of Western Digital Corporation or its affiliates, registered in the United States and other countries.

The SD, microSD, microSDHC and microSDXC marks and logos are trademarks of SD-3C, LLC. Other brand names mentioned herein are for identification purposes only and may be the trademark(s) of their respective holder(s).

WDC\_iNAND\_MC\_EM131 (755) ProdBrief\_EN\_o82318