

SanDisk® iNAND® 7550 Embedded Flash Device

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 7550 e.MMC Embedded Flash Device (EFD) is based on our latest 3D NAND technology and the 4th generation SmartSLC architecture. Combining enhanced performance with the mature e.MMC interface, iNAND 7550 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 7550 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	11.5x13x1.0mm	5.1 HS400	SDINBDA4-32G
64GB	11.5x13x1.0mm	5.1 HS400	SDINBDA4-64G
128GB	11.5x13x1.0mm	5.1 HS400	SDINBDA4-128G
256GB	11.5x13x1.0mm	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.

Key Benefits

Performance

- 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 11.5x13x1.0mm 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

Contact Information

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