

Standard eMMC 5.1

Product Brief



Capacities

**4GB, 8GB, 16GB, 32GB,
64GB, 128GB, 256GB, 512GB**

Advanced Features

- eMMC 5.1 specification
- JEDEC Standard No. JESD84-B51/ JESD84-B51A
- HS600, HS400, HS200 performance modes
- Power-failure protection technology
- Customizable firmware

Applications



Dashcam



Smartphone



Tablet



Smart Speaker



**Industrial Internet Protocol
Camera (IPC)**



Set-top Box (STB)

eMMC Solutions for Modern Technology Requirements

In today's rapidly evolving technology landscape, ensuring your devices are equipped with reliable and high-performing memory solutions is crucial. Our advanced eMMC solution is engineered to meet these needs, enhancing both performance and reliability for a variety of applications, including smartphones, tablets, smart TVs, and set-top boxes.

Key Benefits

Advanced Technology

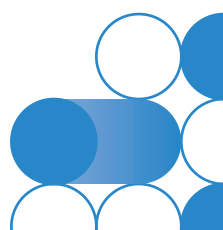
Our eMMC is built with a state-of-the-art LDPC (Low-Density Parity-Check) controller and 2D or 3D NAND technology. This combination not only boosts data integrity but also extends the lifespan of the storage, facilitating smooth and consistent performance across all applications. Note: our 4GB Standard eMMC uses a BCH controller.

Wide Compatibility

Designed for broad adaptability, our eMMC solution integrates seamlessly with a diverse range of devices. Its universal compatibility is ideal for manufacturers aiming to consolidate their product lines around a dependable memory solution that reduces complexity and enhances product reliability.

Optimized for Demanding Environments

Specifically crafted to perform reliably in various challenging and dynamic technological environments, our eMMC stands out by consistently delivering high performance and stability. It is designed to meet the stringent requirements of contemporary applications, providing a robust storage solution that supports the dependability your customers expect.



Specifications

Part Number	Capacity	NAND Flash	Package	Operating Temperature	Protocol	Operating Voltage	Size (mm)
FEMDNN004G-58A42	4GB	MLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN008G-C9A39	8GB	MLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN016G-C9A43	16GB	MLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN032G-A3A55	32GB	TLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x0.8mm
FEMDNN032G-C9A55	32GB	TLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN064G-A3A55	64GB	TLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x0.8mm
FEMDNN128G-A3V01	128GB	TLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN256G-C9C76	256GB	QLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm
FEMDNN521G-A3A56	512GB	TLC	BGA153	-25°C to +85°C	eMMC 5.1	VCC 3.3V VCCQ 1.8V / 3.3V	11.5x13x1.0mm

*Performance based on internal testing. Actual conditions are subject to change without notice.

LEXAR ENTERPRISE 1737 N First St #680, San Jose, CA 95112 • enterprise@lexar.com • lexarenterprise.com

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