CHECK OUT NOW THAT HISTORY IS CREATED!

⊏ eMMC

KLMAG2WEPD-B031

16GB eMMC V5.0

KLMAG2WEPD-B031

OVERVIEW   SPECIFICATIONS   RELATED RESOURCES

The eMMC architecture for embedded memory devices contains not only a data storage element (such as NAND flash memory), but also the controller for the storage element integrated on the same silicon die; it allows devices and applications to maintain the required data rates and throughputs for high-density chips. Along with the abilities to store high-resolution video and provide extended data storage capabilities, this results in reduced development time and easier integration of the memory block in the overall system, and a much shorter time-to-market for the end product.

Moreover, the eMMC is capable of operating at significantly high interface speeds, and provides the designer the flexibility to select the data transfer bus widths and interface voltages. eMMC is also extensively used for platforms that require high levels of performance in very small form factors, such as mobile handsets, and smartphones.

Samsung has the widest range of high performance memory devices based on the eMMC architecture. Worldwide, Samsung eMMC devices are preferred by a majority of system designers, integrators, and OEMs for their flexible configurability, high operating speeds and data transfer bandwidths, low power consumption, and small form factors.

SPECIFICATIONS

EMMC › KLMAG2WEPD-B031

Production Status	EOL	Density	16 GB
Package Size	11.5x13x0.8	Temperature(°C)	-25°C ~ 85°C
Version	5.0	MLC	3bit MLC
Application	Smart Phone, Tablet, Smart TV, Game Console		

RELATED RESOURCES

Brochure (3)   +

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DRAM
- Server DRAM
- PC DRAM
- Mobile DRAM
- Consumer DRAM
- Graphic DRAM

Flash Storage
- V-NAND Technology
- Client SSD
- Enterprise SSD
- eMMC
- UFS

MCP
- eMMC Based MCP
- ePoP

Exynos Solution
- ModAP
- Application Processor
- Modem/RF

ISOCELL Image Sensor
- Mobile CIS
- Industry CIS

Display Solution
- Mobile DDI
- Panel DDI/TCON
- Touch Controller

Security Solution
- Smart Card
- NFC

Power IC

Bio-Processor

APPLICATION

Data Center
- Web Server
- Application Server
- DB Server
- Storage Server

Mobile Device
- Smartphone
- Tablet
- Wearable

Consumer Device
- Desktop
- Notebook
- Smart TV
- Game Console

By Industry
- Automotive
- Industrial
- Banking/ID
- Healthcare & Wellness

FOUNDRY

About Samsung Foundry

Manufacturing

Process Technology
- 14nm
- 32/28nm
- 45nm
- 65nm

Service
- Design Solution
- MPW Shuttle Service
- Mask Service
- Back-end Service
- E-service

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