

# CHECK OUT NOW THAT HISTORY IS CREATED!

eMMC

## MAKE THE MOST OF MOBILE DEVICE.

Stay competitive by building better-performing devices with Samsung eMMC to meet today's diverse demands.



## eMMC (embedded Multi Media Card)

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## The flash storage for superior mobile devices.

Today's mobile-connected world expects mobile devices to deliver seamless and long-lasting performance.

Samsung's expertise in flash storage gives you complete freedom to design smartphones, tablets and other mobile devices that boast faster speed and better power efficiency.



## Optimal speed, maintained at all times.

With its improved cache and data streaming, Samsung eMMC 5.1 gives users fast and sustained performance regardless of remaining capacity or background operation.

Samsung eMMC 5.1 provides faster speed compared to eMMC 5.0, eMMC 5.1 achieves 300 MB/s in sequential read, and 140 MB/s in sequential write while eMMC 5.0 provides 260 MB/s in sequential read, and 135 MB/s in sequential write.

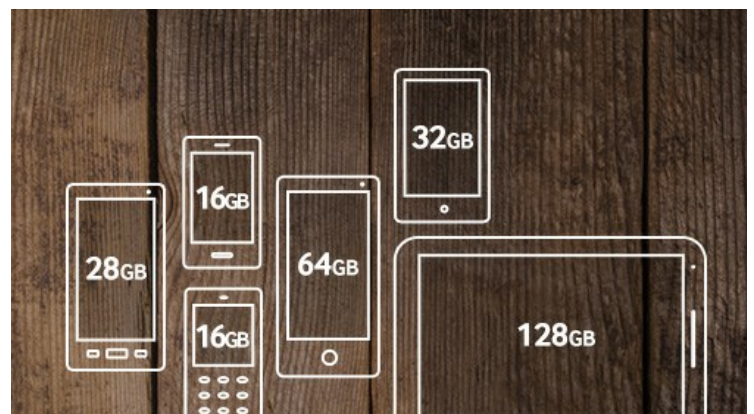
Along with improved speed, Samsung eMMC also provides sustained performance.

## Various density options to meet all device requirements.

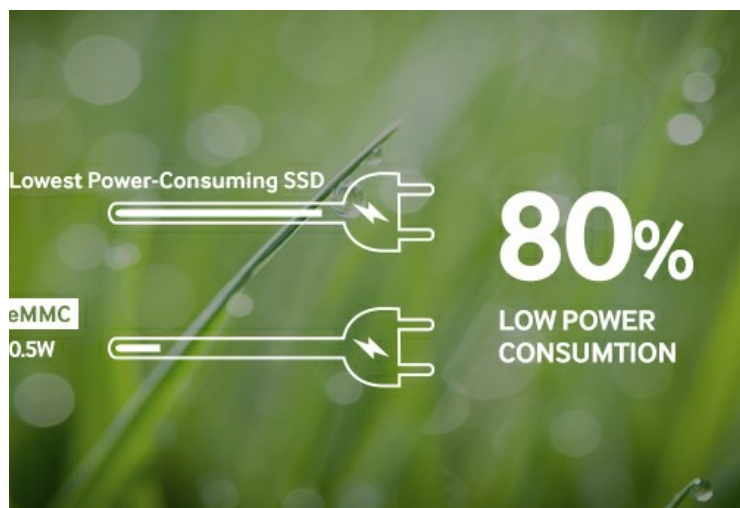
Samsung eMMC supports density options for various devices including smartphone, tablet and many more. With its high capacity storage, Samsung eMMC provides excellent support for high-definition video playback and other complex multimedia features.

Samsung provides eMMC in various densities up to 256GB,

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and has the technology to achieve higher density.



## Getting more done with lower power consumption.

As eMMC is optimized for mobile-centric purposes, it operates with low power consumption, enabling consumers to enjoy more time with their devices.

Samsung eMMC today consumes unprecedentedly low power of 0.5 watts, which is nearly 80% lower than the lowest power-consuming SSD.

## Experts on standby to meet exact product needs.

Time to market is a critical metric for today's mobile device manufacturers as trends for mobile devices change faster than ever. Samsung's support is deliberately configured to help you stay ahead.

Samsung supports speedy time to market by providing customization in a shorter time period through our deep expertise in the field. Samsung is always ready to stably supply a full line-up of models to meet your demands and various needs.



## CATALOGUE

FILTER BY PARAMETER



### Results for eMMC


	Partnumber ▼	Production Status ▼	Density ▼	Package Size ▼	Temperature(°C) ▼	Version ▼	MLC ▼
<input type="checkbox"/>	<a href="#">KLMCG8UERM-C041</a>	Mass Production	256 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	3bit ML
<input type="checkbox"/>	<a href="#">KLMDG4UERM-B041</a>	Mass Production	128 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	3bit ML
<input type="checkbox"/>	<a href="#">KLMDG8JENB-B041</a>	Mass Production	128 GB	11.5x13x1.2	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG4JETD-B041</a>	Mass Production	64 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG2KETM-B041</a>	Mass Production	64 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG4JENB-B041</a>	Mass Production	64 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG8GESD-B03P</a>	Mass Production	64 GB	11.5x13x1.0	-40°C ~ 85°C	5.0	2bit ML

<input type="checkbox"/>	<a href="#">KLMCG8GESD-B03Q</a>	Mass Production	64 GB	11.5x13x1.0	-40°C ~ 105°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG8GESD-B04P</a>	Customer Sample	64 GB	11.5x13x1.0	-40°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMCG8GESD-B04Q</a>	Customer Sample	64 GB	11.5x13x1.0	-40°C ~ 105°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG2JENB-B041</a>	Mass Production	32 GB	11.5x13x1.0	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG2JETD-B041</a>	Mass Production	32 GB	11.5x13x0.8	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG4GESD-B03P</a>	Mass Production	32 GB	11.5x13x1.0	-40°C ~ 85°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG4GESD-B03Q</a>	Mass Production	32 GB	11.5x13x1.0	-40°C ~ 105°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG4GESD-B04P</a>	Mass Production	32 GB	11.5x13x1.0	-40°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMBG4GESD-B04Q</a>	Mass Production	32 GB	11.5x13x1.0	-40°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG1JENB-B041</a>	Mass Production	16 GB	11.5x13x0.8	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG1JETD-B041</a>	Mass Production	16 GB	11.5x13x0.8	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG2GESD-B03P</a>	Mass Production	16 GB	11.5x13x0.8	-40°C ~ 85°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG2GESD-B03Q</a>	Mass Production	16 GB	11.5x13x0.8	-40°C ~ 105°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG2GESD-B04P</a>	Mass Production	16 GB	11.5x13x0.8	-40°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLMAG2GESD-B04Q</a>	Mass Production	16 GB	11.5x13x0.8	-40°C ~ 105°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GEME-B041</a>	Mass Production	8 GB	11.5x13x0.8	-25°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GESD-B03P</a>	Mass Production	8 GB	11.5x13x0.8	-40°C ~ 85°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GESD-B03Q</a>	Mass Production	8 GB	11.5x13x0.8	-40°C ~ 105°C	5.0	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GESD-B04P</a>	Mass Production	8 GB	11.5x13x0.8	-40°C ~ 85°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GESD-B04Q</a>	Mass Production	8 GB	11.5x13x0.8	-40°C ~ 105°C	5.1	2bit ML
<input type="checkbox"/>	<a href="#">KLM8G1GETF-B041</a>	Mass Production	8 GB	11.5x13x0.8	-25°C ~ 85°C	5.1	2bit ML

Compare 

Export 

## RELATED LINKS



SAMSUNG  
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 More Mobility. Less Energy.  
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Brochure (3)



Solution Brief by Application (6)



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Brochure

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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  
- Application Processor  
- ModAP  
- Modem/RF  
CMOS Image Sensor  
- Mobile CIS  
- Camera 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  
- DSC/DSLR  
- 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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MemoryLink   
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Artik   
Simband 

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