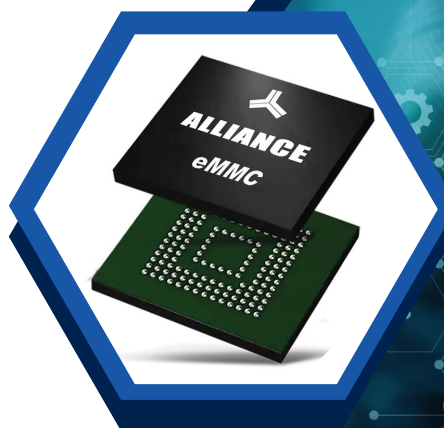


eMMC Component : from 4GB to 128GB

COMPACT AND EFFECTIVE STORAGE

SOLUTIONS FOR VARIOUS REQUIREMENTS



Alliance Memory Inc.



+1 (425) 898-4456



www.alliancememory.com



info@alliancememory.com

FEATURES:

- ✓ eMMC v5.1 interface
- ✓ Backward compatible to old eMMC revs
- ✓ Density:
 - 4GB, 8GB & 16GB with MLC NAND
 - 5GB and 10GB configured as pSLC
 - 16GB, 32GB, 64GB & 128GB with TLC
- ✓ NAND
- ✓ Error Free Memory Access
- ✓ Security features
- ✓ Simply system designs
- ✓ Reduce time-to-market
- ✓ Improve system performance
- ✓ Enhanced Mode / pSLC support
- ✓ Cost effective higher memory storage
- ✓ High Endurance
- ✓ High Reliability
- Long term support
- ✓ Clock Frequency – upto 200MHz
- ✓ Max Bandwidth – 400MB/s
- ✓ High Speed mode – HS400 DDR
- ✓ Bus width modes : 1bit, 4bits and 8bits
- ✓ Hardware reset
- ✓ Command Queue feature
- ✓ Power-Fail data loss protection
- ✓ Wear Leveling technology
- ✓ Read Disturb Management
- ✓ Auto Read Refresh
- ✓ Diagnostic Features with Device health report
- ✓ Field firmware update
- ✓ Discard and Sanitize, Trim
- ✓ Boot Operation Mode
- ✓ Alternate Boot operation mode
- ✓ Replay Protected Memory Block (RPMB)

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Density	VCC	VCCQ	BUS WIDTH	MMC INTERFACE	CLOCK	PACKAGE	NAND TYPE	TEMPERATURE
4GB, 8GB, 16GB	2.7V~3.6V	1.8V / 3.3V	x1, x2, x8	v5.1	200MHz	153b FBGA (11.5x13mm)	MLC	Extended Commercial -25°C~85°C Industrial -40°C~85°C
5GB, 10GB							pSLC	
16GB, 32GB, 64GB, 128GB							TLC	

WHY ENGAGE WITH ALLIANCE MEMORY?

- Strong Supply Chain Strategy (Multiple manufacturing sites)
- Balanced Inventory Management (US & Taiwan)
- Competitive and Stable Pricing
- Minimal or No Die Shrinks, Long-term Support
- Improved Lead times on average 4-8 weeks. Industry Best
- Pin-to-pin drop-in replacements to mainstream suppliers
- Quick sample turnaround
- Great customer service and support (Initial Response <24hrs)

FLASH & STORAGE PRODUCT PORTFOLIO



eMMC CROSS REFERENCE

Density	Alliance PN	Micron	Samsung	KINGSTON	KIOXIA	ISSI	SK Hynix	Macronix	SKY HIGH
4GB	ASFC4G31MA-51BIN	MTFC4G	KLM4G1Gxxx	EMMC04G	THGBMNG5	IS21ES04G	H26M31001	MX52LM04	S40FC004
5GB	ASFC5G31P3-51BIN	MTFC4G	KLM4G1Gxxx	EMMC04G	THGBMNG5	IS21ES04G	H26M31001	MX52LM04	S40FC004
8GB	ASFC8G31MA-51BIN	MTFC8G	KLM8G1Gxxx	EMMC08G	THGBMJG6	IS21ES08G	H26M41208	MX52LM08	S40FC008
10GB	ASFC10G31P3-51BIN	MTFC8G	KLM8G1Gxxx	EMMC08G	THGBMJG6	IS21ES08G	H26M41208	MX52LM08	S40FC008
16GB	ASFC16G31M-51BIN ASFC16G31TA-51BCN	MTFC16G	KLMA Gxxx	EMMC16G	THGBMUG7	IS21TF16G	H26M51002		S40FC016
32GB	ASFC32G31T3-51BIN	MTFC32G	KLMBGxxx	EMMC32G	THGBMUG8	IS21TF32G	H26M62002		
64GB	ASFC64G32T5-51BIN	MTFC64G	KLMSGxxx	EMMC64G	THGAMVG9	IS21TF64G	H26M74002		
128GB	ASFC128G32T5-51BIN	MTFC128G	KLMDGxxx	EMMC128G	THGAMVT0	IS21TF128G			

eMMC PROCESSOR COMPATIBLE MEMORY INTERFACE

NXP

- i.MX 93x
- i.MX 8M Dual
- i.MX 8M Quad
- i.MX 8M Plus
- i.MX 8M Mini
- i.MX 8M Nano
- i.MX 8X Lite
- i.MX 7 / ULP
- i.MX 6 Dual/Quad
- i.MX 6 Solo Lite / X
- i.MX 6 UL / ULL
- S32G / Z / E
- S32V234
- P10xx / P20xx
- T20xx
- P408X
- P50xx
- T4240

INTEL

- Agilex SOC
- Stratix 10 SOC
- Arria 10 SOC
- Arria V SOC
- Cyclone V SOC
- Atom x6000E
- Atom C3000
- Atom E3900
- Celeron N3350
- Pentium N4200
- Atom x5-Z8300

XILINX

- ACAP Versal
- Zynq UltraScale+
- Zynq-7000 SOC

Synaptics

- VS-550
- VS-680
- VS-640

TEXAS INSTRUMENTS

- AM335x
- AM437x
- AM57xx
- TMS320C5517
- DRA7X
- AM654x
- AM652x
- DRA80x
- DRA829
- TDA4VM

MicroChip

- SAMA5D21
- SAMA5D22
- SAMA5D23
- SAMA5D24
- SAMA5D26
- SAMA5D27
- SAMA5D28
- SAM9X60

Renesas

- R-Car V4H
- R-Car V3U
- R-Car V3H
- R-Car V3H2
- R-Car V3M
- R-Car V2H
- R-Car S4
- R-Car S4N
- R-Car H3
- R-Car M3
- R-Car E3
- R-Car H2
- R-Car M2
- R-Car E2
- R-Car D3/e
- R-Car D1

Ambarella

- CV75
- CV72
- CV52
- CV5
- CV2FS
- CV22FS
- CV28/AQ
- CV25/AQ
- CV2/AQ
- CV22/AQ

LONGEVITY

2025
2026
2027
2028
2029
2030
2031
2032