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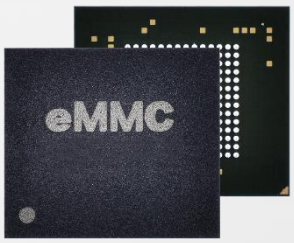
The Most **Reliable** Storage For Industries

EM110-eMMC



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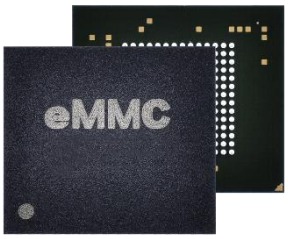
EM110-eMMC

Overview

Apacer EM110-eMMC is an embedded, non-volatile memory system that combines multi-level cell (MLC) NAND flash memory with an onboard eMMC controller, supporting the JEDEC Standard eMMC 5.1 interface. The integrated eMMC controller directly manages NAND flash media, freeing the host processor from various tasks, including ECC, wear-leveling, IOPS optimization, and read sensing.



EM110-eMMC serves as the ideal storage solution for a wide range of industrial applications, including embedded systems, factory automation, networking, transportation, aerospace and defense, surveillance, medical equipment, and more. Its compact BGA package sizes and minimal power consumption render eMMC an affordable and efficient memory solution for mobile and embedded products.

Offering capacities ranging from 8GB to 16GB within a JEDEC-compatible form factor, EM110-eMMC provides an excellent solution for vendors looking for seamless integration, a quick market entry, and ample storage capacity.

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Feature

- Variable clock speeds up to 200MHz
- 10-wire bus interface with hardware reset
- Supports 1-bit, 4-bit, and 8-bit data bus widths
- Internal ECC for error correction
- Enhanced data management
- Reliable power failure protection for data updates
- Secure erase/trim commands
- Enhanced write protection (permanent and partial)
- Field Firmware Update (FFU)
- Power-off notification
- Pre-EOL information
- Improved device lifespan
- Optimal size
- Enhanced strobe
- Cache flushing report
- BKOPS Control and Cache Barrier
- Improved RPMB Throughput
- Secure Write Protection

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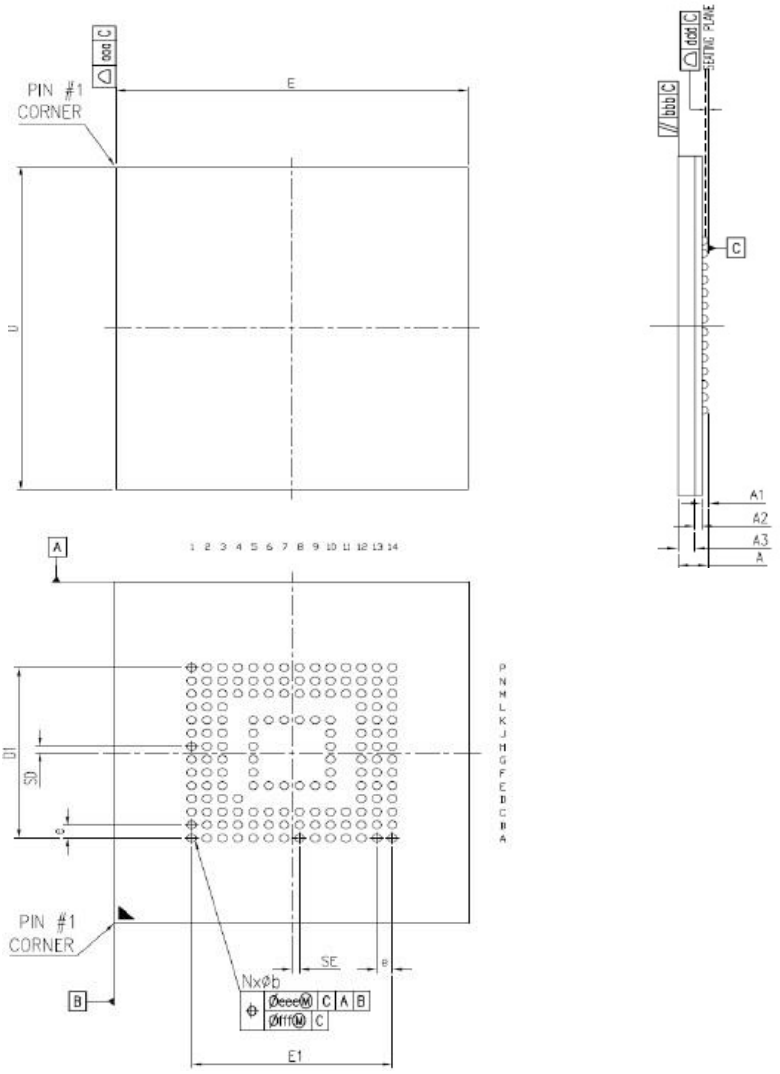
Specifications

Model	EM110-eMMC
Interface	eMMC5.1 HS400
Form Factor	153 Ball FBGA
NAND Flash Type	MLC
Capacity	8GB~16GB
Sequential Read Performance (MB/sec)	Up to 225
Sequential Write Performance (MB/sec)	Up to 125
Standard Operating Temperature (°C)	-40 ~ +85
Storage Temperature (°C)	-40 ~ +85
Thermal sensor	No
Operating Voltage	VCCQ(1.8V) = Min 1.7V ; Max 1.95V VCC(3.3V) = Min 2.7V ; Max 3.6V
Power Consumption	Read: VCCQ(1.8V) = 175mA / VCC(3.3V) = 45mA Write:VCCQ(1.8V) = 85mA / VCC(3.3V) = 75mA
Dimension (L x W x H)	11.50 x 13.00 x 1.00 (mm)

Mechanical Specification



Unit: mm

For more information, contact your Apacer representative

Global Presence

Taiwan (Headquarters)
Apacer Technology Inc.
Tel: +886-2-2267-8000
Fax: +886-2-2267-2261

Europe
Apacer Technology B.V.
Tel: +31-40-267-0000
Fax: +31-40-290-0686

U.S.A.
Apacer Memory America, Inc.
Tel: +1-408-518-8699
Fax: 1-510-249-9551

Shanghai
Apacer Electronic(Shanghai) Co., Ltd.
Tel: +86-21-6228-9939

Japan
Apacer Technology Corp.
Tel: +81-3-5419-2668
Fax: +81-3-5419-0018

India
Apacer Technologies Pvt. Ltd.
Tel: +91-80-41529061~3
Fax: +91-80-41700215