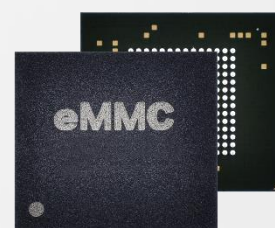


Apacer

The Most **Reliable**
Storage For Industries

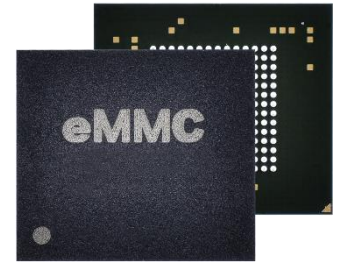
EH150-eMMC



EH150-eMMC

Overview

Apacer EH150-eMMC is an embedded, non-volatile memory system that combines triple-level cell (TLC) NAND flash memory with an onboard eMMC controller, supporting the JEDEC Standard eMMC 5.1 interface and SLC-liteX technology, which provides up to 30,000 P/E cycles. 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.



EH150-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 16GB to 32GB within a JEDEC-compatible form factor, EH150-eMMC provides an excellent solution for vendors looking for seamless integration, a quick market entry, and ample storage capacity.

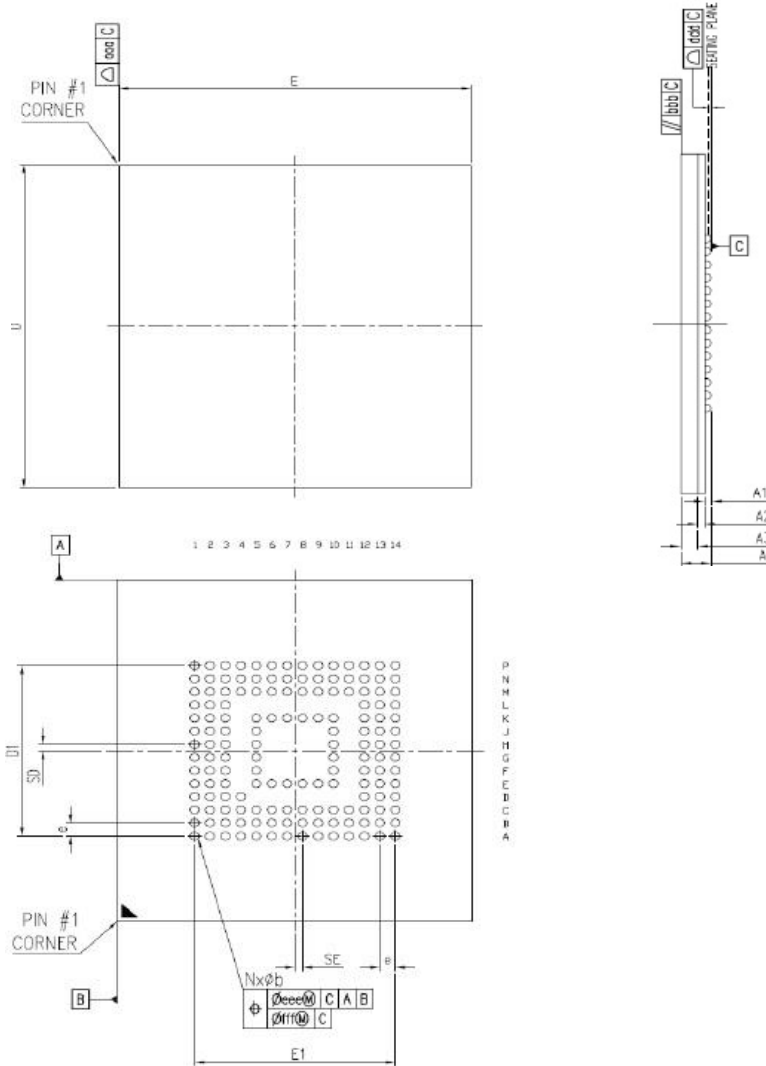
Feature

- 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

Specifications

Model	EH150-eMMC
Interface	eMMC5.1 HS400
Form Factor	153 Ball FBGA
NAND Flash Type	SLC-LiteX
Capacity	16GB~32GB
Sequential Read Performance (MB/sec)	Up to 320
Sequential Write Performance (MB/sec)	Up to 245
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) = 170mA / VCC(3.3V) = 120mA Write: VCCQ(1.8V) = 100mA / VCC(3.3V) = 125mA
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

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