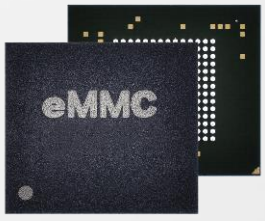
Apacer

The Most **Reliable** Storage For Industries

ET150-eMMC



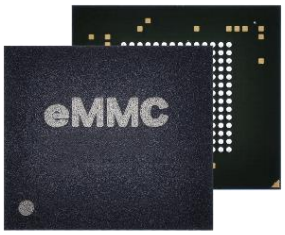
ES France - Mobilité & Systèmes Embarqués
127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 80
e-mail : mse@es-france.com
Site Web : www.es-france.com

Apacer

ET150-eMMC

Overview

Apacer ET150-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. 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.



ET150-eMMC serves as the ideal storage solution for a wide range of commercial applications, including digital TVs, set-top boxes, home automation, camera drones, body-worn cameras, AR/VR systems, wearable gadgets, electronic learning products, and more./ OR 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 128GB within a JEDEC-compatible form factor, ET150-eMMC provides an excellent solution for vendors looking for seamless integration, a quick market entry, and ample storage capacity.

ES France - Mobilité & Systèmes Embarqués
127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 80
e-mail : mse@es-france.com
Site Web : www.es-france.com

Apacer

Feature

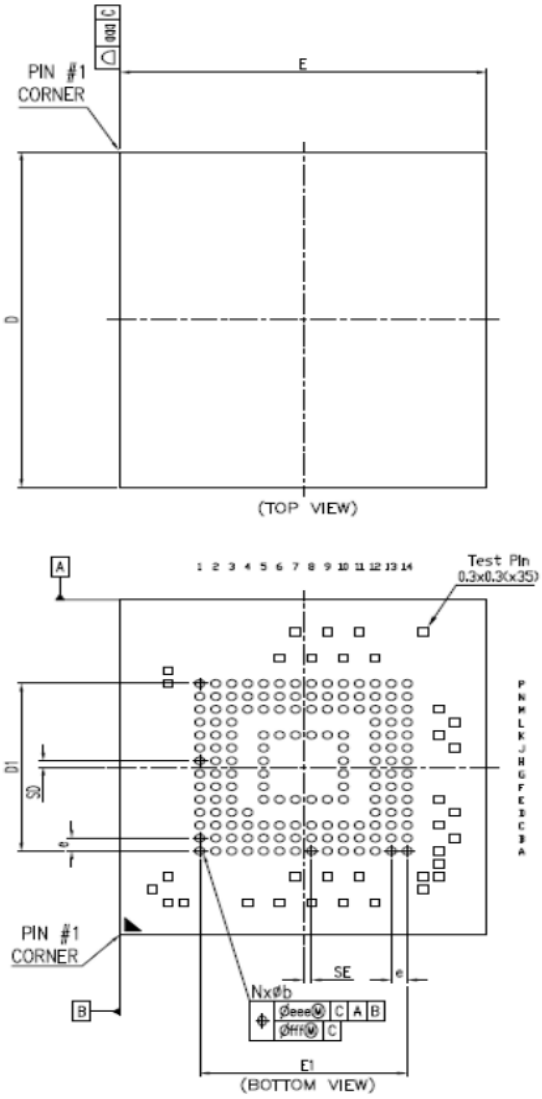
- Variable clock frequencies of 0-200MHz
- Ten-wire bus interface with a hardware reset
- Supports three different data bus widths: 1 bit (default), 4 bits, and 8 bits
- Internal error correction code (ECC)
- Internal enhanced data management algorithm
- Power-loss data protection during programming operations.
- Secure bad block erase commands
- Enhanced write protection with permanent and partial options.
- Field firmware update (FFU)
- Device Health Report
- Pre EOL (End of Life) information
- Optimal size
- Production state awareness
- Power-off notification for sleep

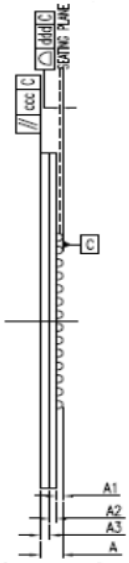
Apacer

Specifications

Model	ET150-eMMC
Interface	eMMC5.1 HS400
Form Factor	153 Ball FBGA
NAND Flash Type	TLC
Capacity	64GB~128GB
Sequential Read Performance (MB/sec)	Up to 315
Sequential Write Performance (MB/sec)	Up to 195
Standard Operating Temperature (°C)	-25 ~ +85
Storage Temperature (°C)	-40 ~ +85
Thermal sensor	No
Operating Voltage	VCCQ=1.8V/3.3V VCC = 3.3V
Power Consumption	Read: VCCQ(1.8V) = 185mA / VCC(3.3V) = 55mA Write: VCCQ(1.8V) = 110mA / VCC(3.3V) = 65mA Sleep Current: VCCQ(1.8V) = 0.22mA / VCC(3.3V) = 0.03mA
Dimension (L x W x H)	11.50 x 13.00 x 0.80 (mm)

Mechanical Specification





LY No.PS-MC-153-5600G-**	SYMBOL	DIMENSION IN MM		
		MIN.	NOM.	MAX.
TOTAL THICKNESS	A	0.61	0.72	0.80
STAND OFF	A1	0.16	0.21	0.26
SUBSTRATE THICKNESS	A2		0.19	
MOLD THICKNESS	A3		0.32	
BODY SIZE	D		13	
	E		11.5	
BALL DIAMETER			0.30	
BALL OPENING			0.275/0.28	
BALL WIDTH	b	0.25	0.30	0.35
BALL PITCH	e		0.50	
BALL COUNT	N		153	
EDGE BALL CENTER TO CENTER	D1		6.50 BSC.	
	E1		6.50 BSC.	
BODY CENTER TO CONTACT BALL	SD		0.25 BSC.	
	SE		0.25 BSC.	
JEDEC(REF)			MO-276(REF.)	
PACKAGE EDGE TOLERANCE	aaa		0.15	
MOLD FLATNESS	ccc		0.20	
COPLANARITY	ddd		0.08	
BALL OFFSET(PACKAGE)	eee		0.15	
BALL OFFSET(BALL)	fff		0.05	

For more information, contact your Apacer representative

Global Presence

ES France - Mobilité & Systèmes Embarqués
127 rue de Buzenval BP 26 - 92380 Garches
Tél. 01 47 95 99 80
e-mail : mse@es-france.com
Site Web : www.es-france.com