



SETTING A NEW STANDARD IN COMPACT STORAGE: WORLD'S SMALLEST 7.2 mm e.MMC PACKAGE

Unmatched Power Efficiency and Reliability in the
Smallest Soldered-Storage Solution



Overview

ATP Electronics introduces the E600Vc e.MMC, a groundbreaking flash storage solution engineered for industrial applications demanding high performance, rugged reliability, and ultra-low power consumption.

With a remarkably small 7.2 x 7.2 mm footprint, the E600Vc delivers up to 128 GB of storage, advanced power management, and robust data protection features, all while adhering to the JEDEC e.MMC 5.1 standard. Designed for seamless integration and optimal performance, the E600Vc Series redefines the possibilities for embedded storage in space-constrained and power-sensitive environments.

Key Features

- **Ultra-Compact Size:** 65% smaller than standard e.MMC packages, ideal for space-constrained applications.
- **Optimized Power Efficiency:** Up to 70% power savings with Auto Power-Saving Mode and Power Optimization technologies.
- **Industrial-Grade Reliability:** Operates reliably from -25°C to 85°C with a vibration-proof FBGA package.
- **High Performance:** Compliant with JEDEC e.MMC 5.1, supporting HS400 DDR Mode for up to 400 MB/s.
- **Enhanced Data Integrity:** Advanced error correction, wear leveling, and Auto/Dynamic Data Refresh for superior data protection.

Specifications

Product Line	Value
	E600Vc
Flash Type	3D TLC
IC Package	153-ball FBGA
JEDEC Specification	v5.1, HS400
Power Loss Protection Options	Firmware Based
Operating Temperature	-25°C to 85°C
Capacity	64 GB to 128 GB
Performance	
Sequential Read/Write up to (MB/s) (Max.)	290/220*
Bus Speed Modes	x1 / x4 / x8
ICC (Typical RMS in Read/Write) mA (Max.)	105/80*
ICCQ (Typical RMS in Read/Write) mA (Max.)	115/95*
Endurance and Reliability	
Endurance TBW (Max.)	24 TB*
Reliability MTBF @ 25°C	>3,000,000 hours
Others	
Dimensions (mm)	7.2 x 7.2 x 0.8
Certifications	RoHS, REACH
Warranty	One Year

*Product specifications may be subject to change.



The Global Leader in Specialized Storage and Memory Solutions

WE BUILD WITH YOU

Product spec and its related information are subject to change without advance notice.
Please refer to www.atpinc.com for latest information

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