

ATP 9x10 e.MMC Embedded Flash Storage Solution

Commercial-Grade Configuration for Read-Intensive Applications



Smaller than a typical e.MMC, ATP 9x10 e.MMC comes in a 153-ball fine pitch ball grid array (FBGA package).The tiny footprint/package size makes it perfectly suitable for embedded systems with space constraints. Its low power consumption will be a major factor in wearable device configuration.

ATP e.MMC is built to meet the tough demands of commercial applications. As a soldered-down solution, it is secure against constant vibrations. Its commercial temperature rating means that scenarios from cold -25°C to hot 85°C will not cause an adverse impact on the device or the data in it.

Compliant with the latest JEDEC e.MMC 5.1 Standard (JESD84-B51), ATP e.MMC features Command Queuing and Cache Barrier to enhance random read/write performance; High Speed 200MHz DDR Mode (HS400) for a bandwidth of up to 400 MB/s; Enhanced Strobe in HS400 Mode facilitates faster synchronization between the host and the e.MMC device; and Field firmware update (FFU) make end application easier to resolve problems in the far-end field. Secure Write Protection ensures that only trusted entities can protect or unprotect the e.MMC device.

It is backward compatible with previous versions (v4.41/v4.5/v5.0), supporting features such as power-off notifications, packed commands, cache, boot or replay protected memory block (RPMB) partitions, and high priority interrupt (HPI).

e.MMC	
	Commercial Grade
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*	32 GB
Performance	
Sequential Read/Write up to (MB/s) ^{**}	250 / 135
Bus Speed Modes	x1 / x4 / x8
ICC (Typical RMS in Read/Write) mA	81.5 / 49.5
ICCQ (Typical RMS in Read/Write) mA	80.5 / 61.5
Endurance and Reliability	
Endurance TBW** (Max.)	8.3 TB
Reliability MTBF @ 25°C	>2,000,000 hours
Others	
Dimensions: L x W x H (mm)	9.0 x 10.0 x 0.8
Certifications	RoHS, REACH
Warranty	One Year

* Low-density parity-check error correcting code. By product support.
** All performance is collected or measured using ATP proprietary test environment, without file system overhead.

© Copyright 2022 ATP Electronics, Inc. All rights reserved.



A: Customization option available on a project basis.

Product spec and its related information are subject to change without advance notice. Please contact ATP Sales for more information.



ATP TAIWAN (HQ)

TEL: +886-2-2659-6368

sales-apac@atpinc.com

ATP USA

TEL: +1-408-732-5000 sales@atpinc.com

ATP EUROPE

TEL: +49-89-374-9999-0 sales-europe@atpinc.com ATP JAPAN

TEL: +81-3-6260-0797

sales-japan@atpinc.com

ATP CHINA

v1.0 202207

TEL: +86-21-5080-2220 sales@cn.atpinc.com