

Product Change Notice: Industrial/Automotive eMMC

PCN.PG61.02.07.2018REV1 02.07.2018

About This Notice:	Changes have been made to the Capacity Code printed on the front side of the eMMC casing. The code designates at which manufacturing location in Taiwan Panasonic's NAND flash is made. Parts will either be shipped with a "U**" or "W**" code that relates to the 8, 16, or 32GB capacity of the card "DA1" suffix has also been removed from the front markings on the cards.	
Effective Date:	Immediate	
Change Details:	Appearance change only; no BOM revision.	
Affected Parts:	RP-SEMC08DA1, RP-SEMC16DA1, RP-SEMC32DA1	
Datasheet(s):	See attached.	
Notes:		

Date: November 28, 2017

To: Panasonic Industrial Devices Sales Company of America

Product Specification

Name of product	Series Name	Part No.
aMMC Carina	RP-SEMC	RP-SEMC08DA1
eMMC Series (Industrial MLC Model)		RP-SEMC16DA1
		RP-SEMC32DA1

Reception used column		

Approved:

Prepared: Nideki Kauni

Storage Business Development Center Connected Solutions Company Panasonic Corporation

RP-SEMCXXDA1

History of Specifications Changes

Date	Contents	Remarks
Nov 17, 2016	1st Version	PSD7102DA10
Nov 28, 2017	Appearance change Remove 'DA1' marking Capacity code : W** added	PSD7102DA11

MC Series

eMMC, Industrial MLC Model

■ Product Outline

MC series are eMMC (Embedded Multi-Media Card) adopting built-in MLC NAND flash memory, and suitable for industrial applications where embedded reliability (mechanical vibration, shock, etc.) is required.

■ Product Specification (specifications and appearances may be changed without notice.)

■ Product Specification (specifications and appearances may be changed without notice.)					
		8GB	16GB	32GB	
Appearance		Panasonic RP-SEMCO8 5AA900480 552IP0E1 U08	Panasonic RP-SEMC16 5AA900480 5521P0E1 U16	Panasonic RP-SEMC32 5AA900480 5521P0E1 U32	
Part Number		RP-SEMC08	RP-SEMC16	RP-SEMC32	
Capacity	User data area capacity	7,818,182,656 byte	15,636,365,312 byte	31,272,730,624 byte	
Compliant	JEDEC Standard	eMMC 5.0			
Specification	Bus Speed Modes	Backwards Compatibility with legacy MMC card, High Speed SDR, High Speed DDR, HS200, HS400			
Form Factor	Package	FBG/	A153 (153 balls / 0.5 mm pitch	n)	
r omi r actor	Dimensions	11.5 mm x 13.0 mm x Max 1.4 mm			
Absolute	Power Supply Voltage	Min: -0.5 V ; Max: 4.7 V			
Maximum Patings	Input Voltage	Min: -0.5 V ; Max: 4.7 V			
Ratings	Output Voltage	Min: -0.5 V ; Max: 4.7 V			
Power Supply Voltages	Supply Voltage for Core (VCC) Supply Voltage for I/O (VCCQ)	Min: 2.7 V, Max: 3.6 V Min: 2.7 V, Max: 3.6 V Min: 1.7 V, Max: 1.95 V			
Environmental Specification	Operating Temperature	-40 degree C to +85 degree C			
	Storage Temperature	-40 degree C to +85 degree C			
Recommended reflow condition JEDEC J-STD-020D.1 / moisture sensitivity: LEVEL 3			: LEVEL 3		

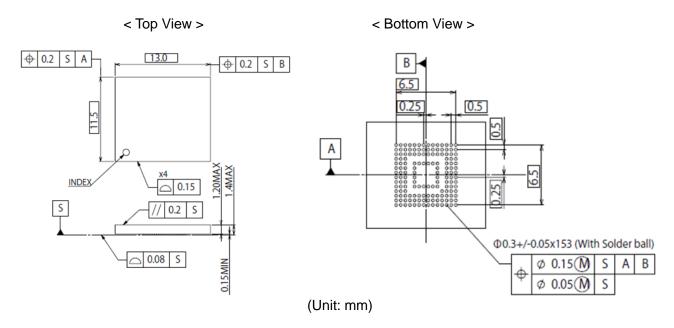
Absolute Maximum Ratings are the limit values that do not damage the product. Those values do not define operational ranges.

Products comply with EU RoHS directives.

Capacity code: U** or W** on right bottom area. ** shows capacity. Above pictures are for U**.

SPEC CODE: PSD7102DA11

■ Package specifications (FBGA153)



■ System Reliability

- a. Powerful error detecting and correcting function
- b. Dynamic/Static wear leveling
- c. Data recovery in case of power failure in writing
- d. Automatic refresh function
- e. Bad block management

■ Notice and Caution

If you think about the usage for which special quality or reliability of the products is needed and failure or malfunction of the products may directly threaten life or injury for the special usage (aeronautic or cosmic usage, military usage, combustion machine, life support applications or safety applications), please counsel with our contacts in advance.

Write frequency and storage temperature will affect data retention time. Please make a backup for important data.

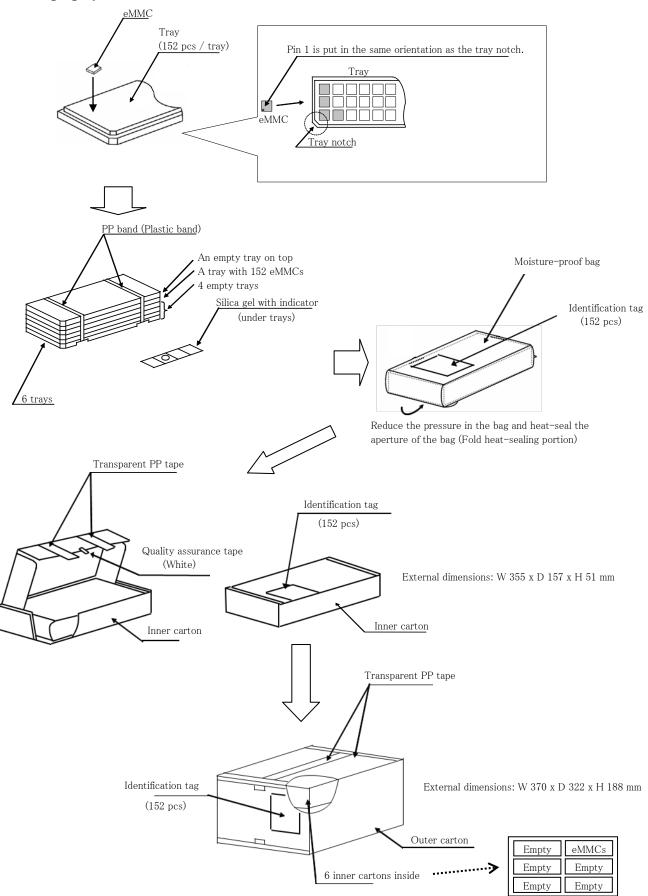
■ Warranty

If the product cannot be used because of failure which is determined as defect in design or in production of the product, it is replaced by same product or equivalent one within 12 months from the delivery date of product.

SPEC CODE: PSD7102DA11

Panasonic RP-SEMCXXDA1

■ Packaging Specification



1 inner carton with 152 eMMCs and 5 empty inner cartons

SPEC CODE: PSD7102DA11

Embedded Multi Media Card Product Specification eMMC 納入仕様書

Storage Business Development Center, Connected Solutions Company, Panasonic Corporation パナソニック株式会社 コネクティッドソリューションズ社 ストレージ事業開発センター 1-15 Matsuo-dno, Kadoma City, Osaka 571-8504, Japan Tel:+81-6-6905-4346 〒571-8504 大阪府門真市松生町 1番 15号 電話(06)6905-4346