

# RENESAS TECHNICAL UPDATE

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Product Category	MPU/MCU		Document No.	TN-RA*-A0122A/E	Rev.	1.00
Title	Addition of Products (Topr = -40 to 105 Degree C) to RA4E2 Group in BGA Package		Information Category	Technical Notification		
Applicable Product	RA4E2 Group	Lot No.	Reference Document	RA4E2 Group User's Manual: Hardware Rev.1.20 (R01UH0996EJ0120)		
		All				

New Products are added to RA4E2 Group.

Features, Table 1.12 and Table 1.13 are updated for BGA package products (Topr = -40 to +105 Degree C).

## Features

Operating Temperature and Packages

● Ta = -40°C to +105°C

- 64-pin LQFP (10 mm × 10 mm, 0.5 mm pitch)
- 48-pin QFN (7 mm × 7 mm, 0.5 mm pitch)
- 32-pin QFN (5 mm × 5 mm, 0.5 mm pitch)
- 64-pin BGA (5 mm × 5 mm, 0.5 mm pitch)
- 36-pin BGA (4 mm × 4 mm, 0.5 mm pitch)

● Ta = -40°C to +85°C

- 64-pin BGA (5 mm × 5 mm, 0.5 mm pitch)
- 36-pin BGA (4 mm × 4 mm, 0.5 mm pitch)

**Table 1.12 Product list**

Product part number	Package code	Code flash	Data flash	SRAM	Operating temperature
R7FA4E2B93CFM	PLQP0064KB-C	128KB	4KB	40KB	-40 to +105 Degree C
R7FA4E2B93CNE	PWQN0048KC-A				
R7FA4E2B93CNH	PWQN0032KE-A				
<b>R7FA4E2B93CBB</b>	<b>PLBG0064KB-A</b>				
<b>R7FA4E2B93CBC</b>	<b>PLBG0036KA-A</b>				
R7FA4E2B92CBB	PLBG0064KB-A				-40 to +85 Degree C
R7FA4E2B92CBC	PLBG0036KA-A				

**Table 1.13 Function Comparison**

	R7FA4E2B93CFM <b>R7FA4E2B93CBB</b> R7FA4E2B92CBB	R7FA4E2B93CNE	<b>R7FA4E2B93CBC</b>	R7FA4E2B93CNH
Part numbers				
Pin count	64	48	36	32
Package	LQFP/BGA	QFN	BGA	QFN