

Product Change Notification (Notification – P2206027-DI) (PC-SOC-A002A/E) June 2, 2022 **To:** Our Valued Distribution Customer The purpose of this notification is to communicate a product change of select Renesas Electronics America, Inc. (REA) devices. This notification announces the following changes to select RX/T1 devices in the 320pin BGA package. See the appendix for additional details. Addition of Advanced Semiconductor Engineering, Inc. as an Assembly Site Addition of King Yuan Electronics Co., Ltd. as a Final Test (Sorting) Site Additional Package Outline Additional Marking Font The new additional device has a new additional part number, and there is a change to the form. There is no impact to the specifications, fit, characteristics, quality & reliability of the products. Affected Products: A review of our records indicates the list of products in the appendix may affect your company. Part numbers given in this list are for active part numbers in REA database at the time of this notification. Key Dates: Shipments from REA of the new additional part numbers begins. March 1, 2023 No response is required. REA will consider this notification approved 30 days after its Response: issue. If you anticipate volumes beyond your regular rate prior to the transition date, please contact your REA sales representative with a forecast of your requirements. If the customer provides a timely acknowledgement, the customer shall have 90 days (an additional 60 days) from the date of receipt of this notification in which to make any objections to the notification. If the customer does not make any objections to this notification within 90 days of the receipt of the notification, then Renesas will consider the notification as approved. If customer cannot accept the notification, then the customer must provide Renesas with a last time buy demand and purchase order. Please contact your REA sales representative for any questions or comments. Thank you for your attention. Sincerely, Renesas Electronics America, Inc.

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Appendix A: Affected Part Numbers

Booking PN	New Additional PN
R7S910002CBG#AC0	R7S910002CBA#BC0
R7S910018CBG#AC0	R7S910018CBA#BC0
R7S910006CBG#AC0	R7S910006CBA#BC0
R7S910025CBG#AC0	R7S910025CBA#BC0
R7S910007CBG#AC0	R7S910007CBA#BC0
R7S910026CBG#AC0	R7S910026CBA#BC0
R7S910011CBG#AC0	R7S910011CBA#BC0
R7S910027CBG#AC0	R7S910027CBA#BC0
R7S910013CBG#AC0	R7S910013CBA#BC0
R7S910028CBG#AC0	R7S910028CBA#BC0
R7S910015CBG#AC0	R7S910015CBA#BC0
R7S910035CBG#AC0	R7S910035CBA#BC0
R7S910016CBG#AC0	R7S910016CBA#BC0
R7S910036CBG#AC0	R7S910036CBA#BC0
R7S910017CBG#AC0	R7S910017CBA#BC0

Appendix B: Change Summary

Item	Current	New Additional	
Assembly (Location)	Amkor Technology Japan, Inc. (Hakodate, Japan)	Advanced Semiconductor Engineering, Inc. (Kaohsiung, Taiwan)	
Final Test (Location)	Amkor Technology Japan, Inc. (Kumamoto, Japan)	King Yuan Electronics Co., Ltd. (Chu-Nan, Taiwan)	
Package	No Change	Changed	
Tester	No Change		
Test Program	No Change		
Marking	No Change	Changed	



Appendix C: Package Outline Change

Current product			Additional product						
		Dimension in Millimeters				Dimension in Millimeters			
	Symbol	Min.	Nom.	Max.		Symbol	Min.	Nom.	Max.
Package size	D	16.80	17.00	17.20	Package size	D	16.80	17.00	17.20
Package size	E	16.80	17.00	17.20	Package size	E	16.80	17.00	17.20
Total thickness	А	-	-	2.30	Total thickness	A	-	-	1.75
Stand off	A1	0.35	0.40	0.45	Stand off	A1	0.35	0.40	0.45
Ball pitch	е	-	0.80	_	Ball pitch	е	-	0.80	-
Ball width	b	0.45	0.50	0.55	Ball width	b	0.45	0.50	0.55
Ball offset (Package)	x1	-	-	0.20	Ball offset (Package)	x1	-	-	0.20
Ball offset (Ball)	x2	-	-	0.08	Ball offset (Ball)	x2	-	-	0.08
Coplanarity	у	-	-	0.10	Coplanarity	у	-	-	0.12
Mold parallelism	y1	-	-	0.20	Mold parallelism	y1	-	-	0.20

Appendix D: Marking Change



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Appendix E: Packing Label Change

Current product		Additional product
D/N: R7S910XXXCBG	ACOWL01000	D/N: R7S910XXXCBA U03L
SPN: R7S910XXXCBG#AC0 ACOWL01000		SPN: R7S910XXXCBA#BC0 BC0M503000
or		
D/N: R7S910XXXCBG	ACOWL02000	
SPN: R7S910XXXCBG#AC0 AC	OWL02000	

Appendix F: Storage Conditions for Additional Product

実装条	<pre># Mount Conditions</pre>	1/1
防湿包装開封後保管条件 Storage Conditions After Opening Moisture-Proof Packing		ルネサス エレクトロニクス株式会社 Renesas Electronics Corporation
防湿包装開封後I After opening mot	ning moisture-proof packi はパッケージの吸湿を避け	するため、下記条件にて保管してください。 conductor devices must be stored under the following
項目 Item 温度	条件 Condition 5°C~30°C	備考 Note
Temperatur 湿度 Humidity	e 5 − 30°C 60%RH 以下 ≦60%RH	
時間 ※ Time	168 時間以内 ≦168 hours	※開封後〜最終リフローはんだ付け完了ま での時間 The time from the point the packaging is opened until the last device reflowing has

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Appendix G: Package Outline Drawing for Additional Product

JEITA Package code	RENESAS code	MASS(TYP.)[g]	
P-LFBGA320-17x17-0.80	PRBG0320GB-A	0.92	



5	/	7

Dimension in Millimeters

Nom.

17.00

17.00

15.20

15.20

_

-

0.50

0.80

_

_

_

320

Max.

_

_

_

1.75

_

0.55

_

0.20

0.20

0.12

0.20

0.08

_

Min.

_

_

_

_

0.35

0.45

_

_

_

_

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Appendix H: Packing Specification for Additional Product





Appendix I: Reflow Soldering Conditions for Additional Product

実装条件 Mount Conditions リフローはんだ付け条件	ルネサス エレクトロニクス株式会社
Reflow Soldering Conditions	Renesas Electronics Corporation
リフローはんだ付け方式 Reflow Soldering Method (IRリフロー炉、エアーリフロー炉、エアー+赤外部 (IR Reflow Air Reflow IR+Air Reflow) 防湿包装開封後は再吸湿を避けるため、防湿包装限 下記条件にてリフローはんだ付けを行ってください。 また、それ以上経過した場合はベーク条件で示すべ- Please perform reflowing with following conditions will moisture-proof packing in order not to make product If the time after opening the moisture-proof packing prescribed bake is necessary.	引封後の保管条件以内に、 ーク処理を行ってください。 thin prescribed storage time after opening the ts be re- moisturized.
1) 部品耐熱性 Heat Resistance <耐热温度 Heat resistance temperature :260°C	>
最高リフロー温度 (パッケージ表面温度) Maximum temperature (Pockage surface temp	orature) 260°Cは下 Maximum 260°C
255°C以上の時間 Over 255°C Time	30s 以下 ≦30 seconds
217℃以上の時間 Time of temperature higher than 217℃	60~150s 60 - 150 seconds
プリヒート温度 150°C~200°Cの時間 Preheating time at 150°C to 200°C	60~120s 60 - 120 seconds
Ackage Surface Temperature 12000 12000 12000 0001 000 000 1201	255°C 260°C max. 70 30s max. 50~150s
リフローはんだ付けプロ: Reflow Soldering Pro 2)リフロー回数 : 3回以下 (防湿包装開封後の使 Reflowing times : Maximum 3 times (Within prescr	file 呈管条件以内)
3) リフロー雰囲気:エアーもしくは窒素(N2)	e(N2)