

## Product Change Notice (PCN)

**Subject:** Add Alternate Assembly Location on Select CABGA Package

**Publication Date:** 3/25/2025

**Effective Date:** 6/24/2025

**Revision Description:**

Initial Release

**Description of Change:**

Renesas is adding Amkor Philippines as the alternate Assembly location in expanding the supply chain for CABGA-100 package that currently assembled at ASECL Taiwan. The alternate assembly location is the current qualified location for Renesas. The material sets of the current location and the alternate assembly location are identical as shown in the table below. The process flows are identical at all the qualified assembly locations.

There will be no changes in the moisture sensitive level due to this change.

Material Set/Assembly	ASECL Taiwan	Amkor Philippines
Die Attach Epoxy	Ablebond 2025D	Ablebond 2300
Bonding Wire	Copper wire	Copper wire
Mold Compound	G760L	G770FE
Solder Ball	SAC305 400µm	SAC305 400µm

**Affected Product List:** Refer Appendix B.

**Reason for Change:**

The change is to create dual supply to secure business continuity.

**Impact on Fit, Form, Function, Quality & Reliability:**

The change will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

**Product Identification:**

Assembly lot# prefix denote Assembly Location

Prefix	Current Location	Alternate Location
RC	ASECL	
P		Amkor Philippines

**Qualification Status:** Completed. Refer Appendix A  
**Sample Availability Date:** 16 weeks from sample booking date  
**Device Material Declaration:** Available upon request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. If timely acknowledgement is provided by Customer, then Customer shall have 90 days from the date of receipt of this PCN to make any objections to this PCN. If Customer fails to make objections to this PCN within 90 days of the receipt of the PCN then Renesas will consider the PCN changes as approved.
3. If customer cannot accept the PCN then customer must provide Renesas with a last time buy demand and purchase order.

For additional information regarding this notice, please contact [idt-pcn@lm.renesas.com](mailto:idt-pcn@lm.renesas.com)

**Appendix A - Qualification Results**
**Affected Package:** CABGA-100

**Qual Vehicle:** CABGA-100

**Assembly Material:** As shown in page 1

**Qual Plan & Results:** Tests are in accordance with JEDEC47 recommended tests.

Test Descriptions	Test Method	Test Results (Rej/SS)		
		Lot 1	Lot 2	Lot 3
* Temperature Cycling (-55 °C to 125 °C, 700 cycles)	JESD22-A104	0/25	0/25	0/25
* HAST - biased (110 °C/85% RH, 264 Hrs)	JESD22-A110	0/25	0/25	0/25
* HAST - unbiased (130 °C/85% RH, 96 Hrs)	JESD22-A118	0/25	0/25	0/25
High Temperature Storage Bake (150 °C, 1000 Hrs)	JESD22-A103	0/25	0/25	0/25
Ball Shear Test	JESD22-B116	0/5	0/5	0/5
Bond Pull Test	MIL-STD-883 (Method 2011)	0/5	0/5	0/5
Physical Dimensions	JESD22-B100	0/30	0/30	0/30
Die Shear Test	MIL-STD-883 (Method 2019)	0/5	0/5	0/5
Moisture Sensitivity Level, MSL	J-STD-20 / MSL 3, 260 °C	0/25	0/25	0/25

\*Tests were subjected to Preconditioning per JESD22-A113 prior to stress test

**Appendix B – Affected Product List**

8V19N460BDGI	8V19N490-19BDGI	8V19N490ABDGI	8V19N490BDGI
8V19N460BDGI8	8V19N490-19BDGI8	8V19N490ABDGI8	8V19N490BDGI8
8V19N480BDGI	8V19N490-24BDGI	8V19N490BBDGI	8V19N491-36BDGI
8V19N480BDGI8	8V19N490-24BDGI8	8V19N490BBDGI8	8V19N491-36BDGI8