

## Product Change Notice (PCN)

**Subject:** Alternate assembly facility of the listed Renesas QFN / TQFN packaged products

**Publication Date:**

Initial PCN – 12/8/2020

Final PCN – 03/02/2021

**Effective Date:** 5/30/2021

**Revision Description:**

Initial Release

Revision A : Changes are in **RED** Font.

1. Qualification status has changed from “In Progress” to “Completed”
2. Update PCN20033 with Reliability Test Result. See Appendix B.
3. Update PCN Effective Date from 07/07/2021 to 05/30/2021

**Description of Change:**

Alternate assembly facility of the listed Renesas QFN / TQFN packaged products

- Carsem (M) Sdn. Bhd. ( S-Site ), Ipoh, Malaysia (CAS)

**List of changes :**

- Adding CAS as alternate assembly site

This notice is an update to PCN20033 (which was published on Dec 08, 2020), Renesas Electronics will begin to use CAS as alternate assembly facility of Quad Flat No Lead (QFN) and Thin Quad Flat No Lead (TQFN) product.

**Reason for Change:**

Adding assembly site will expand current capabilities and capacities to optimize Renesas’s ability to meet customer’s delivery requirements. CAS is ISO9001:2015 and IATF 16949:2016 certified. CAS is existing assembly supplier for high volume assembly of QFN and TQFN packaged products.

**Impact on fit, form, function, quality & reliability:**

The assembly qualification plan is designed using JEDEC and other applicable industry standards to confirm there is no impact to form, fit, function or interchangeability of the product. The remainder of the manufacturing operations (wafer fabrication, package level electrical test, etc) will continue to be processed to previously established manufacturing flow.

**Product Identification:**

Product affected by this change is identifiable via Renesas’s internal traceability system. In addition, product assembled at CAS may also be identified by the assembly site code (country of assembly) when marked on the devices. The site code for product assembled at

#	Assembly Site	Site Code
1	CAS	X

Qualification status: **Completed**  
 Sample availability: 4/1/2021  
 Device material declaration: Available upon request

Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Renesas within 30 days of the publication date.

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: <a href="mailto:PCN-US@RENESAS.COM">PCN-US@RENESAS.COM</a>	Europe: <a href="mailto:PCN-EU@RENESAS.COM">PCN-EU@RENESAS.COM</a>	Japan: <a href="mailto:PCN-JP@RENESAS.COM">PCN-JP@RENESAS.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@RENESAS.COM">PCN-APAC@RENESAS.COM</a>

Appendix A : Product List

**Affected Product List**

ISL68220IRAZ	ISL68236IRAZ-T	ISL69228IRAZ-TR5911	ISL69247IRAZ-TR5868	ISL69298IRAZ
ISL68220IRAZ-T	ISL68239IRAZ	ISL69234IRAZ	ISL69247IRAZ-TR5954	ISL69298IRAZ-T
ISL68220IRAZ-T7A	ISL68239IRAZ-T	ISL69234IRAZ-T	ISL69247IRBZ-TR5819	RAA228000GNP#AAO
ISL68221IRAZ	ISL68239IRAZ-T7A	ISL69234IRAZ-T7A	ISL69247IRBZ-TR5834	RAA228000GNP#HAO
ISL68221IRAZ-T	ISL69222IRAZ	ISL69236IRAZ	ISL69247IRBZ-TR5868	RAA228000GNP#MAO
ISL68221IRAZ-T7A	ISL69222IRAZ-T	ISL69236IRAZ-T	ISL69247IRCZ-TR5828	RAA228000R04GNP#HAO
ISL68222IRAZ	ISL69222IRAZ-T7A	ISL69236IRAZ-T7A	ISL69247IRCZ-TR5834	RAA228004GNP#AAO
ISL68222IRAZ-T	ISL69222IRAZ-TR5911	ISL69239IRAZ	ISL69247IRCZ-TR5868	RAA228004GNP#HAO
ISL68223IRAZ	ISL69223IRAZ	ISL69239IRAZ-T	ISL69248IRAZ-T	RAA228004GNP#MAO
ISL68223IRAZ-T	ISL69223IRAZ-T	ISL69239IRAZ-T7A	ISL69254IRAZ	RAA228004R0JGNP#HAO
ISL68223IRAZ-T7A	ISL69223IRAZ-T7A	ISL69242IRAZ	ISL69254IRAZ-T	RAA228004R0NGNP#HAO
ISL68223IRBZ-TR5834	ISL69224IRAZ	ISL69242IRAZ-T	ISL69254IRAZ-T7A	RAA228006GNP#AAO
ISL68223IRCZ-TR5834	ISL69224IRAZ-T	ISL69242IRAZ-T7A	ISL69254IRAZ-TR5976	RAA228006GNP#HAO
ISL68224IRAZ	ISL69224IRAZ-T7A	ISL69242IRAZ-TR5820	ISL69255IRAZ	RAA228006GNP#MAO
ISL68224IRAZ-T	ISL69225IRAZ	ISL69242IRBZ-TR5834	ISL69255IRAZ-T	RAA228218GNP#AAO
ISL68224IRAZ-T7A	ISL69225IRAZ-T	ISL69242IRCZ-TR5834	ISL69256IRAZ	RAA228218GNP#HAO
ISL68225IRAZ	ISL69225IRAZ-T7A	ISL69243IRAZ	ISL69256IRAZ-T	RAA228218GNP#MAO
ISL68225IRAZ-T	ISL69225IRAZ-TR5954	ISL69243IRAZ-T	ISL69256IRAZ-T7A	RAA228227GNP#AAO
ISL68226IRAZ	ISL69225IRBZ-TR5819	ISL69243IRAZ-T7A	ISL69259IRAZ	RAA228227GNP#HAO
ISL68226IRAZ-T	ISL69225IRDZ-TR5868	ISL69243IRAZ-TR5868	ISL69259IRAZ-T	RAA228227GNP#MAO
ISL68226IRAZ-T7A	ISL69225IREZ-TR5868	ISL69243IRAZ-TR5954	ISL69259IRAZ-T7A	RAA228228GNP#AAO
ISL68227IRAZ	ISL69227IRAZ	ISL69243IRBZ-TR5819	ISL69259IRAZ-TR5979	RAA228228GNP#HAO
ISL68227IRAZ-T	ISL69227IRAZ-T	ISL69243IRBZ-TR5868	ISL69268IRAZ	RAA228228GNP#MAO
ISL68229IRAZ	ISL69227IRAZ-T7A	ISL69243IRCZ-TR5868	ISL69268IRAZ-T	RAA229001GNP#HAO
ISL68229IRAZ-T	ISL69227IRAZ-TS2568	ISL69247IRAZ	ISL69268IRAZ-T7A	RAA229004GNP#HAO
ISL68233IRAZ	ISL69228IRAZ	ISL69247IRAZ-T	ISL69269IRAZ	RAA229618GNP#AAO
ISL68233IRAZ-T	ISL69228IRAZ-T	ISL69247IRAZ-T7A	ISL69269IRAZ-T	RAA229618GNP#HAO
ISL68236IRAZ	ISL69228IRAZ-T7A	ISL69247IRAZ-TR5820	ISL69269IRAZ-T7A	RAA229618GNP#MAO

Appendix B : Reliability Test

Test Description	Condition	ISL69242IRAZ 32 Leads, 4x4mm TQFN Package	ISL69269IRAZ 68 Leads, 8x8mm QFN Package
Moisture Sensitivity Level (MSL)	Level 3	N=271 Acc=0	N=268 Acc=0
Biased HAST (b-HAST) +130C, 85% RH	96 hours	N=186 Acc=0	N=185 Acc=0
Storage Life (HTS)	1000 hours	N=90 Acc=0	N=90 Acc=0
Unbiased HAST (u-HAST)	96 hours	N=116 Acc=0	N=119 Acc=0
Temperature Cycling (TCT) +150C / -65C	200 cyc	N=120 Acc=0	N=118 Acc=0
	500 cyc	N=120 Acc=0	N=118 Acc=0

 Completed and Passed