

## Product Change Notice (PCN)

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

**Publication Date:** 08/09/2021

**Effective Date:** 11/7/2021

**Revision Description:**

Initial Release

**Description of Change:**

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

- *UTAC Thai Ltd., Bangkok, Thailand (UTL)*

**List of changes :**

This is to inform you that Renesas Electronics will begin to use UTL 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. UTL is ISO9001:2015 and IATF 16949:2016 certified. UTL 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 UTL 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	UTL	T

**Qualification status:** Completed

**Sample availability:** 10/1/2021

**Device material declaration:** Available upon request

**Note:**

Sample is available October 01, 2021 onwards, and subject to availability. Customer may expect 1 – 2 months for sample replenishment.

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.

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)			
AmeriUTL: <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 : Affected Product List

**Affected Product List**

ISL68124IRAZ	ISL68134IRBZ-TR5845	ISL68301IRAZ-TR5825	ISL69125IRAZ-TR5733	ISL69137IRAZ-TR5810
ISL68124IRAZ-T	ISL68134IRBZ-TR5961	ISL68301IRAZ-TR5826	ISL69125IRAZ-TR5737	ISL69138IRAZ
ISL68124IRAZ-T7A	ISL68137IRAZ	ISL68301IRAZT7AR5823	ISL69125IRAZ-TR5915	ISL69138IRAZ-T
ISL68124IRAZ-TR5776	ISL68137IRAZ-T	ISL68301IRAZT7AR5824	ISL69125IRDZ-TR5687	ISL69138IRAZ-T7A
ISL68124IRAZ-TR5833	ISL68137IRAZ-T7A	ISL68301IRAZT7AR5825	ISL69127IRAZ	ISL69138IRAZ-TR5693
ISL68124IRAZ-TR5857	ISL68137IRAZ-TR5741	ISL68301IRAZT7AR5826	ISL69127IRAZ-T	ISL69138IRAZT7AR5693
ISL68124IRAZ-TR5952	ISL68137IRBZ-TR5781	ISL68312IRAZ-T	ISL69127IRAZ-T7A	ISL69144IRAZ
ISL68124IRAZ-TR5982	ISL68137IRBZT7AR5781	ISL68312IRAZ-T7A	ISL69127IRAZ-TR5733	ISL69144IRAZ-T
ISL68127IRAZ	ISL68144IRAZ	ISL68312IRAZ-TK	ISL69127IRAZ-TR5737	ISL69144IRAZ-T7A
ISL68127IRAZ-T	ISL68144IRAZ-T	ISL68312IRBZ-T	ISL69127IRAZ-TR5738	ISL69144IRAZ-TR5744
ISL68127IRAZ-T7A	ISL68144IRAZ-T7A	ISL68318IRAZ-T	ISL69129IRDZ-TR5687	ISL69144IRAZ-TR5833
ISL68127IRAZ-TR5776	ISL68147IRAZ	ISL69122IRAZ	ISL69133IRAZ	ISL69144IRBZ-TR5752
ISL68127IRAZ-TR5778	ISL68147IRAZ-T	ISL69122IRAZ-T	ISL69133IRAZ-T	ISL69144IRBZ-TR5828
ISL68127IRAZ-TR5823	ISL68147IRAZ-T7A	ISL69122IRAZ-T7A	ISL69133IRAZ-T7A	ISL69147IRAZ
ISL68127IRAZ-TR5857	ISL68300IRAZ	ISL69124IRAZ	ISL69134IRAZ	ISL69147IRAZ-T
ISL68127IRAZ-TR5888	ISL68300IRAZ-T	ISL69124IRAZ-T	ISL69134IRAZ-T	ISL69147IRAZ-T7A
ISL68127IRAZ-TR5951	ISL68300IRAZ-T7A	ISL69124IRAZ-T7A	ISL69134IRAZ-T7A	ISL69147IRAZ-TR5744
ISL68127IRAZ-TR6510	ISL68300IRAZ-TK	ISL69124IRAZ-TR5733	ISL69134IRAZ-TR5695	ISL69147IRAZ-TR5828
ISL68127IRAZT7AR5823	ISL68301IRAZ	ISL69124IRAZ-TR5738	ISL69134IRAZ-TR5827	ISL69147IRAZ-TR5833
ISL68127IRBZ-TR5804	ISL68301IRAZ-T	ISL69124IRBZT7AR5693	ISL69134IRAZ-TR5955	ISL69147IRBZ-TR5752
ISL68134IRAZ	ISL68301IRAZ-T7A	ISL69124IRDZ-TR5687	ISL69137IRAZ	ISL69147IRBZT7AR5752
ISL68134IRAZ-T	ISL68301IRAZ-TK	ISL69125IRAZ	ISL69137IRAZ-T	ISL69158IRAZ
ISL68134IRAZ-T7A	ISL68301IRAZ-TR5823	ISL69125IRAZ-T	ISL69137IRAZ-T7A	ISL69158IRAZ-T
ISL68134IRAZ-TR5883	ISL68301IRAZ-TR5824	ISL69125IRAZ-T7A	ISL69137IRAZ-TR5773	ISL69158IRAZ-T7A

Appendix B : Reliability Test Result

Test Description	Condition	ISL68127IRAZ-TR5778 48 Lead, 6mm x 6mm QFN Package	ISL68300IRAZ 24 Lead, 4mm x 4mm QFN Package
Moisture Sensitivity Level (MSL)	Level 3	N =66 Acc = 0 L1 Pb-Free	N =66 Acc = 0 L1 Pb-Free
Biased Highly Accelerated Stress Test (bHAST) +130°C ; 85% RH	96 hours	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0 L3 Pb-Free
Hot Temperature Stroage (HTS) +150°C	500 hours	N=240 Acc = 0	N=240 Acc = 0
	1000 hours	N=240 Acc = 0	N=240 Acc = 0
Temperature Cycle (TCT) -65°C / +150°C	500 cycles	N=240 Acc = 0 L3 Pb-Free	N=240 Acc = 0

 Pass Qualification

 Qualified by Extension