

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: PCN-US@RENESAS.COM | Europe: PCN-EU@RENESAS.COM | Japan: PCN-JP@RENESAS.COM | Asia Pac: PCN-APAC@RENESAS.COM |

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