

## Product Change Notice (PCN)

**Subject:** Alternate assembly facility of the listed Renesas PQFN packaged products

**Publication Date:** 9/18/2024

**Effective Date:** 12/15/2024

**Revision Description:**

Initial Release

Revision A : Update affected product list

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

- 1. Update affected product list.**

**Description of Change:**

Alternate assembly facility of the listed Renesas PQFN packaged products

- ASE Electronics (M) Sdn Bhd, Penang, Malaysia (ASEM)

**Affected Product List**

RAA2214904S04GNP#HBO	RAA2214904S09GNP#HBO	RAA2214914S02GNP#HBO	RAA2214904GNP#HBA
RAA2214904S04GNP#HBA	RAA2214904S09GNP#HBA	RAA2214914S06GNP#HBO	RAA2214904GNP#HBO
RAA2214904S05GNP#HBO	RAA2214904S0EGNP#HBO	RAA2214914S0DGNP#HBO	RAA2214904GNP#HBB
RAA2214904S05GNP#HBA	RAA2214904S0EGNP#HBA	RAA2214994GNP#HBO	<b>RAA2214914GNP#HBO</b>

**List of changes :**

This notice is to inform you that Renesas Electronics America, Inc will begin to use ASEM as alternate assembly facility of the listed PQFN product.

**Reason for Change:**

ASEM is ISO9001:2015 and IATF 16949:2016 certified. The change is necessary to maintain product manufacturability in support of customer delivery requirements.

**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, 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 ASEM 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	ASEM	P

**Qualification status:** Completed

**Sample availability:** 10/1/2024

**Device material declaration:** Available upon request  
 Samples are available October 01, 2024 onwards, and subject to availability. Customer may expect 1 – 2 months for sample replenishment.

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 your regional change coordinator (below)			
Americas: <a href="mailto:PCN-US@RENEASAS.COM">PCN-US@RENEASAS.COM</a>	Europe: <a href="mailto:PCN-EU@RENEASAS.COM">PCN-EU@RENEASAS.COM</a>	Japan: <a href="mailto:PCN-JP@RENEASAS.COM">PCN-JP@RENEASAS.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@RENEASAS.COM">PCN-APAC@RENEASAS.COM</a>

Appendix A : Reliability Test Result

Test Description	Condition	RAA2214914GNP#HBO 39 Lead, 5mm x 6mm x 0.75mm PQFN Package	RAA2214904GNP#HBA 34 Lead, 4mm x 6mm x 1.0mm PQFN Package
High Temperature Operating Life (HTOL) +125°C	1000 hours	N = 80 Acc = 0	N = 80 Acc = 0
Biased Highly Accelerated Stress Test (bHAST) +110°C ; 85% RH	264 hours	N = 168 Acc = 0 L3	N = 160 Acc = 0 L3
	96 hours	N = 72 Acc = 0 L3	N = 80 Acc = 0 L3
Unbiased Highly Accelerated Stress Test (uHAST) +130°C ; 85% RH	96 hours	N = 240 Acc = 0 L3	N = 240 Acc = 0 L3
Hot Temperature Stroage (HTS) +150°C	1000 hours	N=240 Acc = 0	N=240 Acc = 0
Moisture Sensitive Level (MSL) +30 °C ; 60% RH	Level 3	N=75 Acc = 0 L3	N=66 Acc = 0 L3
Temperature Cycle (TCT) -40°C / +125 °C	1000 cycles	N=240 Acc = 0 L3	N=240 Acc = 0 L3

 PASS