

Product Change Notice

(PCN Tracking Number: EE-QR-220727-01)

Version: 1

Customer:	ALL Customers
Renesas Product Type:	SRAM TSOP products
Description of Change:	Addition of assembly site at Greatek Electronics Inc. (hereinafter referred as GTK) to Amkor Technology Malaysia Sdn. Bhd. (hereinafter referred as ATM).
Reason for Change:	Increase of assembly production capacity.
Identification:	Identifiable by the country of origin marked on the package.
Schedules:	Sample delivery: e/o Aug. 2022 (upon request) Reliability report: m/o Sept. 2022 Requested approval e/o Nov. 2022 Change Implementation m/o Jan. 2023 onwards
Anticipated Impact:	Fit, Form & Function No impact Quality & Reliability No impact
Doc. No.:	EEQC-PCN-CR-22-0157
Internal Reference:	CST-R2-AJ153

In case of any question, please contact:

INITIATOR	TITLE	E-mail	PHONE No.
Farhad Banihashemi	Staff Engineer	farhad.banihashemi@renesas.com	+49-211-6503-1844

Düsseldorf, 27.07.2022

Customer Response:

(please fill in and return by e-mail, fax or mail)

- acknowledge Company: _____
- acceptable
- unacceptable (pls. comment) Name & Position: _____
- not applicable Phone / Fax No.: _____

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

Comments:

(Signature)

Details of Change:

Comparison table: Product of current source of assembly (ATM) vs Product of additional source of assembly (GTK)

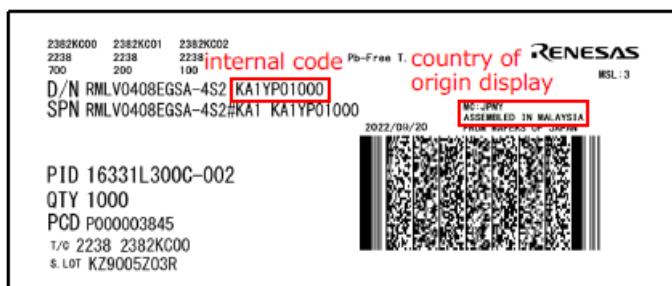
Item		Product of current source of assembly (ATM)	Product of additional source of assembly (GTK)
Assembly line		Amkor Technology Malaysia Sdn. Bhd. (Malaysia)	Greatek Electronics Inc. (Taiwan)
Country of origin display		MALAYSIA	TAIWAN
Assembly Material	Lead frame material	Cu	Cu
	Inner lead pattern	Current pattern (ATM original pattern)	Different from ATM pattern (GTK original pattern)
	Outer lead pattern	Current pattern	Compatible with ATM pattern
	Lead plating	Sn (pure tin)	Sn (pure tin)
	Die bonding	Epoxy paste	Epoxy paste
	Wire bonding	Au	Au
	Mold	Epoxy resin (Halogen-free)	Epoxy resin (Halogen-free)
Die thickness		280µm	254µm
Final test line		Powertech Technology Inc. (Taiwan)	←
Packing specification		Current specification	←
Moisture-proof performance		MSL 3	←
Shipping label		Current specification	No change in format (Changes in internal code and country of origin)

Although there are differences in the inner lead pattern and die thickness, these do not affect the compatibility of electrical characteristics (DC/AC).

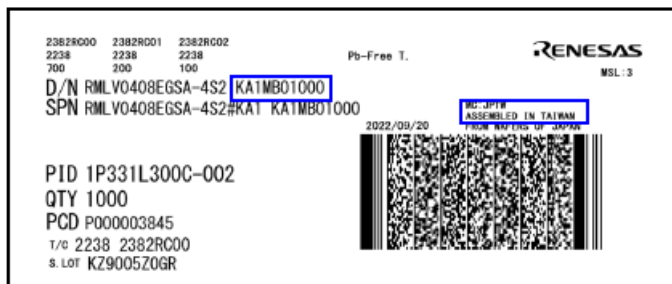
Shipping label specification:

- Label format itself is unchanged.
- Written specifications: "internal code" and "country of origin display" are changed. See below for example.

Product of current source of assembly (ATM)



Product of additional source of assembly (GTK)



Product List:

Please refer to separate supplementary file “Appendix_CST-R2-AJ153_PCN_SRAM” for further information.

R1LP5256ESA-5SI#B1	R1LP5256ESA-5SI#S1	R1LV5256ESA-5SI#B1	R1LV5256ESA-5SI#S1
R1LP0108ESA-5SI#B1	R1LP0108ESA-5SI#S1	R1LV0108ESA-5SI#B1	R1LV0108ESA-5SI#BJ
R1LV0108ESA-5SI#S1	R1LV0208BSA-5SI#B1	R1LV0208BSA-5SI#BK	R1LV0208BSA-5SI#S1
R1LV0208BSA-5SI#SK	RMLV0408EGSA-4S2#AA1	RMLV0408EGSA-4S2#KA1	R1LV0216BSB-5SI#B1
R1LV0216BSB-5SI#S1	R1RP0416DSB-0PI#D1	R1RP0416DSB-2LR#D1	R1RP0416DSB-2LR#S1
R1RP0416DSB-2PI#D1	R1RP0416DSB-2PR#D1	R1RP0416DSB-2PR#S1	R1RP0416DSB-2SR#D1
R1RW0416DSB-0PI#D1	R1RW0416DSB-0PI#S1	R1RW0416DSB-0PR#D1	R1RW0416DSB-0PR#S1
R1RW0416DSB-2LR#D1	R1RW0416DSB-2PI#D1	R1RW0416DSB-2PI#S1	R1RW0416DSB-2PR#D1
R1RW0416DSB-2PR#S1	R1RW0416DSB-2SR#D1	R1RW0416DSB-2UR#D1	RMLV0414EGSB-4S2#AA1
RMLV0414EGSB-4S2#HA1	RMLV0416EGSB-4S2#AA1	RMLV0416EGSB-4S2#HA1	RMLV0808BGSB-4S2#AA0
RMLV0808BGSB-4S2#HA0	RMLV0816BGSB-4S2#AA0	RMLV0816BGSB-4S2#HA0	RMLV0816BGSA-4S2#AA0
RMLV0816BGSA-4S2#KA0	RMLV1616AGSA-5S2#AA0	RMLV1616AGSA-5S2#KA0	RMLV3216AGSA-5S2#AA0
RMLV3216AGSA-5S2#KA0			