

Customer:

Product Change Notice (PCN Tracking Number: EE-QR-220727-01)

ALL Customers

Version: 1

Renesas Product Ty	rpe: SRAM TSO	SRAM TSOP products				
Description of Chan		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 I	Identifiable by the country of origin marked on the package.				
Schedules:	Reliability re Requested a	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 & Quality & Re	• • • • • • • • • • • • • • • • • • •				
Doc. No.:	EEQC-PCN	EEQC-PCN-CR-22-0157				
Internal Reference:	CST-R2-AJ	CST-R2-AJ153				
In case of any question	n, please contact:					
INITIATOR	TITLE	E-mail	PHONE No.			
Farhad Banihashemi	Staff Engineer	farhad.banihashemi@renesas.com	+49-211-6503-1844			
Customer Response: (please fill in and return by e-mail, fax or mail) acknowledge						
approved. If timely ack of receipt of this PCN i PCN within 90 days of	ent must be received by knowledgement is proving which to make any control the PCN	Renesas within 30 days or Renesas will ided by Customer, then Customer shall habjections to the PCN. If Customer fails to I then Renesas will consider the PCN cha	consider the change as ave 90 days from the date make objections to this nges as approved. If			
approved. If timely ack of receipt of this PCN i PCN within 90 days of customer cannot acce	ent must be received by knowledgement is proving which to make any control the PCN	Renesas within 30 days or Renesas will ided by Customer, then Customer shall habjections to the PCN. If Customer fails to I then Renesas will consider the PCN cha	consider the change as ave 90 days from the date make objections to this nges as approved. If			
approved. If timely ack of receipt of this PCN i PCN within 90 days of customer cannot acce	ent must be received by knowledgement is proving which to make any control the PCN	Renesas within 30 days or Renesas will ided by Customer, then Customer shall habjections to the PCN. If Customer fails to I then Renesas will consider the PCN cha	consider the change as ave 90 days from the date make objections to this nges as approved. If			



Details of Change:

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

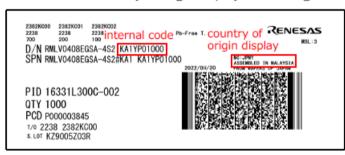
Item		Product of current source of assembly (ATM)	Product of additional source of assembly (GTK)	
Assembly line		Amkor Technology Malaysia Sdn. Bhd. (Malaysia)	Greatek Electronics Inc. (Taiwan)	
Country of origin display		MALAYSIA	TAIWAN	
Assembly Material	Lead frame material	Cu	Cu	
	Inner lead pattern	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			