

Product Change Notice (PCN)

Subject: Add Alternate Fab Location

Publication Date: 12/23/2022

Effective Date: 2/3/2023

Revision Description:

Revision 1 to amend Product Identification from ZA to Y to denote TSMC Fab 14

Description of Change:

This PCN notice is to advise customers that Renesas is qualifying TSMC Fab 14 as an alternate fab location to alleviate supply chain constraint on the products listed in this notice. There is no change to the product design or process technology as compared to the existing fab location, TSMC Fab 12.

Renesas will provide a conditional qual report by end of this year that will include all items except HTOL that will be completed in February 2023. This product will have the same Orderable Part Number as the existing DDR4 Gen 2.5 RCD but with different manufacturing site info on the topmark.

There is no change to the package assembly and backend manufacturing processing including the product datasheets.

Affected Product List: Refer Appendix B

Reason for Change:

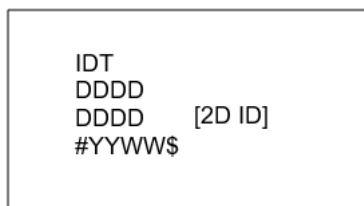
This change will allow the flexibility to ship from all the qualified facilities and will provide the increased capacity.

Impact on Fit, Form, Function, Quality & Reliability:

The change is expected will have no impact on the form, fit, function, quality, reliability and environmental compliance of the products.

Product Identification:

Stepping "Y" on product marking denotes the alternate fab location, TSMC Fab 14. Refer top mark diagram as depicted below.



Line 1 = IDT Name
 Line 2 = Part Number
 Line 3 = Part Number
 Line 4 = # - Die Rev ("Y" = TSMC Fab 14, "Z" = TSMC Fab 12)
 YYWW - Date Code
 \$ - Mark Location

Fab Qualification Status at Renesas: In Progress. Refer below for qualification schedules.

| Qualification | Timeline |
|---|---------------|
| Conditional Qual. Report (Validation complete except HTOL) | December 2022 |
| Final Qual. Report (All testing complete including reliability) | February 2023 |

Sample Availability Date: Targeting samples to be shipped in Nov'22

Test Correlation report: Available on request

Note:

1. Acknowledgement must be received by Renesas within 30 days or Renesas will consider the change as approved.
2. Request customer for an expeditious qualification and approval of this PCN. Renesas intends to start ramping up production shipments in Q1'23.

For additional information regarding this notice, please contact idt-pcn@lm.renesas.com

Appendix B – Affected Product List

| | | | |
|--------------------|------------------|-------------------|-----------------|
| 4RCD0232EMKC1ATG8B | 4RCD0232KC1ATG/M | 4RCD0232KC1ATG8/B | 4RCD0232KC1ATGI |
| 4RCD0232KC1ATG | 4RCD0232KC1ATG8 | 4RCD0232KC1ATG8/M | |