

Product Change Notice (PCN)

Subject: VersaClock 7 Family Revision Update

Publication Date: 5/15/2024

Effective Date: 9/15/2024

Revision Description:

Revision I. This revision notice is to inform our customers that the PCN effective date and the Last Time Buy (LTB) date have been extended from June 15th, 2024 to September 15th, 2024.

Description of Change:

Below changes have been implemented:

1. Remove power sequencing restrictions among different power supply pins (VDDA, VDDD and VDDO), power supply pins can ramp up in any order.
2. Adding 2.5V support on blank unprogrammed devices (postfix B000/B001/BQ00/BQ01 devices).

New part numbers and datasheets are created for this change. New revision devices are available and released now.

Starting at the effective date of the PCN, the current part numbers will be de-activated/discontinued and replaced by new ordering part numbers to track this revision change.

Last Time Buy (LTB) date for current part numbers will be September 15th, 2024.

Last Time Ship (LTS) date for current part numbers will be December 15th, 2024.

Affected Product List: Refer Appendix B.

Reason for Change:

To improve device robustness and operating conditions.

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

There is no change on device pinout and operating temperature or voltage range.

Characterization has been successfully completed.

Product Identification:

The orderable part number will have a new revision code updated from “A” to “B”. Refer to Appendix B for full affected product list.

For example:

Current part number	New part number
RC21008A001GND#BBO	RC21008B001GND#BBO

Device physical top mark will also be updated. Please refer to the latest datasheet for more information.

Qualification Status: Completed. Refer Appendix A

Sample Availability Date: 11/15/2023

Device Material Declaration: Available upon request

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 idt-pcn@lm.renesas.com

Appendix A – Qualification

Product : RC31012B, RC31008B, RC21012B, RC21008B			
Fab Base:	AK922C005-FW	Process Technology:	55LPe, 1P8M
Package Types:	VFQFPN 48	Fab Location:	Global Foundry
Qual Plan:	Q23-10-003	Assembly Location:	ASEC - Taiwan

Test Description	Conditions	Sample Size	Results (rej/SS)	Comments
ESD: Human Body Model	JESD22-A114 (JS-001) Classification	3	0/3	Pass, Class 2 (2500V)
ESD: Charged Device Model	JESD22-C101 Classification	3	0/3	Pass, Class C2 (1000V)
Latch-Up	JESD78, +/-100mA	6	0/6	Pass, T _A at 125 °C
Electrical Characterization	Datasheet	10	Results reported in Datasheet	Complete

Appendix B - Affected Product List

RC21008

Current Part Number	New Part Number
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RC21012

Current Part Number	New Part Number
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RC31008

Current Part Number	New Part Number
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RC31012

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