

## Product Change Notice (PCN)

**Subject:** VersaClock 7 Family Revision Update

**Publication Date:** 3/15/2024

**Effective Date:** 6/15/2024

### Revision Description:

Initial Release

### 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 June 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#BB0  | RC21008B001GND#BB0 |

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.

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| <b>For additional information regarding this notice, please contact <a href="mailto:idt-pcn@lm.renesas.com">idt-pcn@lm.renesas.com</a></b> |
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## Appendix A – Qualification

|                                                         |              |                     |                |
|---------------------------------------------------------|--------------|---------------------|----------------|
| <b>Product : RC31012B, RC31008B, RC21012B, RC21008B</b> |              |                     |                |
| 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 <sub>A</sub> at 125 °C |
| Electrical Characterization | Datasheet                           | 10          | Results reported in Datasheet | Complete                       |

## Appendix B - Affected Product List

### RC21008

| Current Part Number | New Part Number    |
|---------------------|--------------------|
| RC21008A000GND#BB0  | RC21008B000GND#BB0 |
| RC21008A000GND#KB0  | RC21008B000GND#KB0 |
| RC21008A001GND#BB0  | RC21008B001GND#BB0 |
| RC21008A001GND#KB0  | RC21008B001GND#KB0 |
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| RC21008A050GND#KB0  | RC21008B050GND#KB0 |
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| RC21008AQ78GL2#BDO | RC21008BQ78GL2#BDO |
| RC21008AQ78GL2#KDO | RC21008BQ78GL2#KDO |

## RC21012

| Current Part Number | New Part Number    |
|---------------------|--------------------|
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| RC21012A000GNA#KBO  | RC21012B000GNA#KBO |
| RC21012A001GNA#BBO  | RC21012B001GNA#BBO |
| RC21012A001GNA#KBO  | RC21012B001GNA#KBO |
| RC21012A050GNA#BBO  | RC21012B050GNA#BBO |
| RC21012A050GNA#KBO  | RC21012B050GNA#KBO |
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## RC31008

| Current Part Number | New Part Number    |
|---------------------|--------------------|
| RC31008A000GND#BBO  | RC31008B000GND#BBO |
| RC31008A000GND#KBO  | RC31008B000GND#KBO |
| RC31008A001GND#BBO  | RC31008B001GND#BBO |
| RC31008A001GND#KBO  | RC31008B001GND#KBO |
| RC31008A002GND#BBO  | RC31008B002GND#BBO |
| RC31008A002GND#KBO  | RC31008B002GND#KBO |
| RC31008A050GND#BBO  | RC31008B050GND#BBO |
| RC31008A050GND#BBN  | RC31008B050GND#BBN |
| RC31008A050GND#KBO  | RC31008B050GND#KBO |
| RC31008A050GND#KBN  | RC31008B050GND#KBN |
| RC31008A051GND#BBO  | RC31008B051GND#BBO |
| RC31008A051GND#KBO  | RC31008B051GND#KBO |
| RC31008A052GND#BBO  | RC31008B052GND#BBO |
| RC31008A052GND#KBO  | RC31008B052GND#KBO |
| RC31008A053GND#BBO  | RC31008B053GND#BBO |
| RC31008A053GND#KBO  | RC31008B053GND#KBO |
| RC31008A054GND#BBO  | RC31008B054GND#BBO |

|                    |                    |
|--------------------|--------------------|
| RC31008A055GND#BB0 | RC31008B055GND#BB0 |
| RC31008A056GND#BB0 | RC31008B056GND#BB0 |
| RC31008A056GND#KB0 | RC31008B056GND#KB0 |
| RC31008A057GND#BB0 | RC31008B057GND#BB0 |
| RC31008A057GND#KB0 | RC31008B057GND#KB0 |
| RC31008A060GND#BB0 | RC31008B060GND#BB0 |
| RC31008A060GND#KB0 | RC31008B060GND#KB0 |
| RC31008A061GND#BB0 | RC31008B061GND#BB0 |
| RC31008A061GND#KB0 | RC31008B061GND#KB0 |
| RC31008A064GND#BB0 | RC31008B064GND#BB0 |
| RC31008A064GND#KB0 | RC31008B064GND#KB0 |
| RC31008A065GND#BB0 | RC31008B065GND#BB0 |
| RC31008A065GND#KB0 | RC31008B065GND#KB0 |
| RC31008A066GND#BB0 | RC31008B066GND#BB0 |
| RC31008A066GND#KB0 | RC31008B066GND#KB0 |
| RC31008A067GND#BB0 | RC31008B067GND#BB0 |
| RC31008A067GND#KB0 | RC31008B067GND#KB0 |
| RC31008A068GND#BB0 | RC31008B068GND#BB0 |
| RC31008A068GND#KB0 | RC31008B068GND#KB0 |
| RC31008A150GND#BB0 | RC31008B150GND#BB0 |
| RC31008A150GND#KB0 | RC31008B150GND#KB0 |
| RC31008A151GND#BB0 | RC31008B151GND#BB0 |
| RC31008A151GND#KB0 | RC31008B151GND#KB0 |
| RC31008A152GND#BB0 | RC31008B152GND#BB0 |
| RC31008A152GND#KB0 | RC31008B152GND#KB0 |
| RC31008A153GND#BB0 | RC31008B153GND#BB0 |
| RC31008A153GND#KB0 | RC31008B153GND#KB0 |
| RC31008A154GND#BB0 | RC31008B154GND#BB0 |
| RC31008A154GND#KB0 | RC31008B154GND#KB0 |
| RC31008A155GND#BB0 | RC31008B155GND#BB0 |
| RC31008A155GND#KB0 | RC31008B155GND#KB0 |
| RC31008A156GND#BB0 | RC31008B156GND#BB0 |
| RC31008A156GND#KB0 | RC31008B156GND#KB0 |
| RC31008A157GND#BB0 | RC31008B157GND#BB0 |
| RC31008A157GND#KB0 | RC31008B157GND#KB0 |
| RC31008A158GND#BB0 | RC31008B158GND#BB0 |
| RC31008A158GND#KB0 | RC31008B158GND#KB0 |
| RC31008A999GND#BB0 | RC31008B999GND#BB0 |
| RC31008AQ00GL2#BD0 | RC31008BQ00GL2#BD0 |
| RC31008AQ00GL2#KD0 | RC31008BQ00GL2#KD0 |
| RC31008AQ70GL2#BD0 | RC31008BQ70GL2#BD0 |
| RC31008AQ70GL2#KD0 | RC31008BQ70GL2#KD0 |
| RC31008AQ71GL2#BD0 | RC31008BQ71GL2#BD0 |
| RC31008AQ71GL2#KD0 | RC31008BQ71GL2#KD0 |

## RC31012

| Current Part Number | New Part Number    |
|---------------------|--------------------|
| RC31012A000GNA#BB0  | RC31012B000GNA#BB0 |
| RC31012A000GNA#KB0  | RC31012B000GNA#KB0 |
| RC31012A001GNA#BB0  | RC31012B001GNA#BB0 |
| RC31012A001GNA#KB0  | RC31012B001GNA#KB0 |
| RC31012A054GNA#BB0  | RC31012B054GNA#BB0 |
| RC31012A054GNA#KB0  | RC31012B054GNA#KB0 |
| RC31012A055GNA#BB0  | RC31012B055GNA#BB0 |
| RC31012A055GNA#KB0  | RC31012B055GNA#KB0 |
| RC31012A056GNA#BB0  | RC31012B056GNA#BB0 |
| RC31012A056GNA#KB0  | RC31012B056GNA#KB0 |
| RC31012A057GNA#BB0  | RC31012B057GNA#BB0 |
| RC31012A057GNA#KB0  | RC31012B057GNA#KB0 |
| RC31012A058GNA#BB0  | RC31012B058GNA#BB0 |
| RC31012A058GNA#KB0  | RC31012B058GNA#KB0 |
| RC31012A059GNA#BB0  | RC31012B059GNA#BB0 |
| RC31012A059GNA#KB0  | RC31012B059GNA#KB0 |
| RC31012A061GNA#BB0  | RC31012B061GNA#BB0 |
| RC31012A061GNA#KB0  | RC31012B061GNA#KB0 |
| RC31012A062GNA#BB0  | RC31012B062GNA#BB0 |
| RC31012A062GNA#KB0  | RC31012B062GNA#KB0 |
| RC31012A074GNA#BB0  | RC31012B074GNA#BB0 |
| RC31012A074GNA#KB0  | RC31012B074GNA#KB0 |
| RC31012A075GNA#BB0  | RC31012B075GNA#BB0 |
| RC31012A075GNA#KB0  | RC31012B075GNA#KB0 |
| RC31012A100GNA#BB0  | RC31012B100GNA#BB0 |
| RC31012A100GNA#KB0  | RC31012B100GNA#KB0 |
| RC31012A101GNA#BB0  | RC31012B101GNA#BB0 |
| RC31012A101GNA#KB0  | RC31012B101GNA#KB0 |
| RC31012A102GNA#BB0  | RC31012B102GNA#BB0 |
| RC31012A102GNA#KB0  | RC31012B102GNA#KB0 |
| RC31012A103GNA#BB0  | RC31012B103GNA#BB0 |
| RC31012A103GNA#KB0  | RC31012B103GNA#KB0 |
| RC31012A104GNA#BB0  | RC31012B104GNA#BB0 |
| RC31012A104GNA#KB0  | RC31012B104GNA#KB0 |
| RC31012A105GNA#BB0  | RC31012B105GNA#BB0 |
| RC31012A105GNA#KB0  | RC31012B105GNA#KB0 |
| RC31012A106GNA#BB0  | RC31012B106GNA#BB0 |
| RC31012A106GNA#KB0  | RC31012B106GNA#KB0 |
| RC31012A107GNA#BB0  | RC31012B107GNA#BB0 |
| RC31012A107GNA#KB0  | RC31012B107GNA#KB0 |
| RC31012A108GNA#BB0  | RC31012B108GNA#BB0 |
| RC31012A108GNA#KB0  | RC31012B108GNA#KB0 |

|                    |                    |
|--------------------|--------------------|
| RC31012A109GNA#BB0 | RC31012B109GNA#BB0 |
| RC31012A109GNA#KB0 | RC31012B109GNA#KB0 |