AVN-20220701.0 TEB0911 RTC does not work

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Company	Trenz Electronic GmbH
AVN Number	AVN-20220701.0
Title	AVN-202207010.0 TEB0911 RTC does not work
Subject	Information about RTC usage
Issue Date	2022-07-01

Products Affected

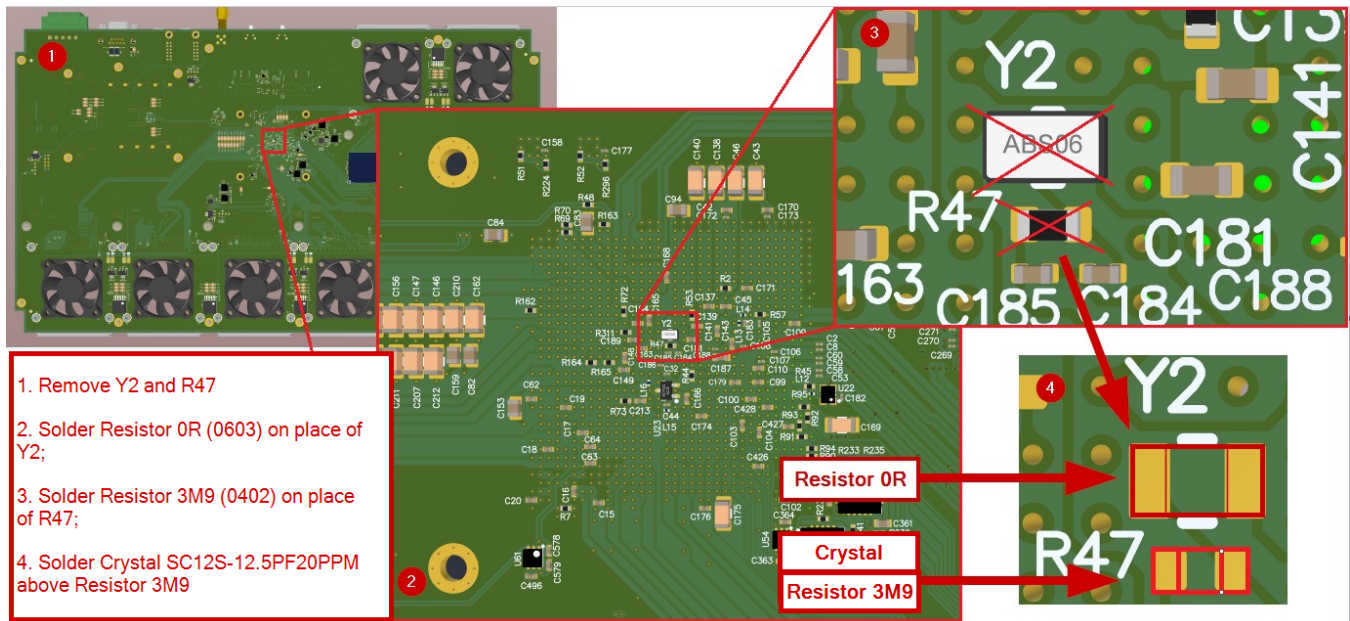| Affected Product |
|---|
| TEB911-01-* |
| TEB911-02-* |
| TEB911-03-* |
| TEB911-04-* |

Notes

The HW wiring for the RTC is incorrect. This leads to the fact that the RTC initializes, but the time does not change.

RTC time can be tested with "hwclock --test"

Patch

Problem can be solved with following HW changes:

1. Remove Y2 and R47
2. Solder Resistor 0R (0603) on place of Y2
3. Solder Resistor 3M9 (0402) on place of R47
4. Solder Crystal SC12S-12.5PF20PPM above Resistor 3M9

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Procedure to fix RTC issue

Production Shipment Schedule

We are issuing a new revision on TEB0911 and will make the necessary changes to future modules.

Method of Identification

- The module revision number is printed on the top side of the PCB:

Contact Information

If you have any questions related to this AVN, please contact Trenz Electronics Technical Support at

- forum.trenz-electronic.de
- wiki.trenz-electronic.de
- support%trenz-electronic.de (subject = AVN-202207010.0)
- phone
    - national calls: 05741 3200-0
    - international calls: 0049 5741 3200-0

Disclaimer

Any projected dates in this AVN are based on the most current product information at the time this AVN is being issued, but they may change due to unforeseen circumstances. For the latest schedule and any other information, please contact your local Trenz Electronic sales office, technical support or local distributor.

This AVN follows JEDEC Standard J-STD-046.