AVN-20220701.1 TEB0911 readback FAN Sense does not work

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Company	Trenz Electronic GmbH
AVN Number	AVN-20220701.1
Title	AVN20220701.1 TEB0911 readback FAN Sense does not work
Subject	Information about FAN Sense value over CPLD I2C interface
Issue Date	2022-07-01

Products Affected

Affected Product	Effected Changes
TEB911-01-*	#1,#2
TEB911-02-*	#1,#2
TEB911-03-*	#1,#2
TEB911-04-*	#1,#2

Description

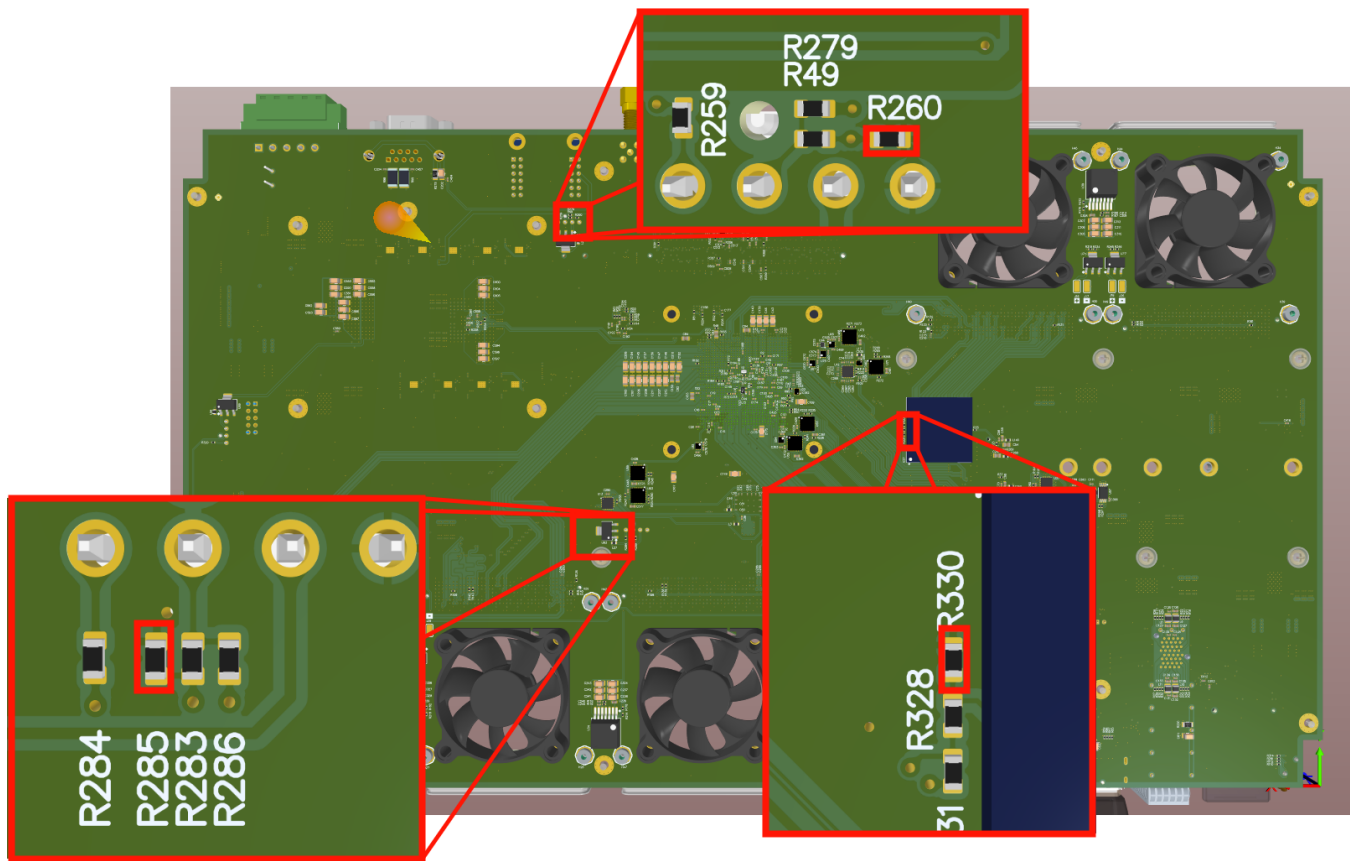Read back of the FAN SENSE pin is currently not possible due to the following problems

- #1 FAN Logic Level is incorrect
- #2 CPLD I2C Slave Soft IP does not support i2c-get method

The problem refers only to the read back current setup. Configure fan speed is not affected by this AVN.

#1 Incorrect Voltage Level for F1SENSE, F2SENSE, F3SENSE

Problem can be solved with following HW changes:

1. Remove R285 (connected to F1SENSE)
2. Remove R330 (connected to F2SENSE)
3. Remove R260 (connected to F3SENSE)

Procedure to fix FAN Sense voltage level

#2 CPLD I2C Slave IP Bug

I2C-get register reading is not possible with CPLD Firmware Version 05 or older. Update of the CPLD Firmware with correct is planned.

Production Shipment Schedule

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

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 =AVN20220701.1)
- 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.