

Company	Trenz Electronic GmbH
PCN Number	PCN-20250207
Title	TE0887-03 to TE0887-04 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2025-05-26

Products Affected

This change affects all Trenz Electronic TE0887 SoMs: TE0887-03*.

Affected Product	Replacement
TE0887-03M	TE0887-04-M
TE0887-03M-S	TE0887-04-M-S (on request)

Changes

#1 Changed flash (U12) from S25FL127SABMFV10 to S25FL128LAGMFI013.

Type: BOM change

Reason: EOL of Component.

Impact: None, no changes in our design are necessary. JEDEC manufacturer is still the same. Modified device IDs and temperature grade from -40° C - 105 °C to -40 °C - 85 °C.

#2 Changed HyperRAM (U5) from S27KL0641DABHI02 to IS66WVH8M8DBLL-100B1LI.

Type: BOM change

Reason: EOL of Component.

Impact: None, no changes in our design are necessary. JEDEC manufacturer is still the same. Modified device IDs and temperature grade from -40° C - 105 °C to -40 °C - 85 °C.

#3 Changed DCDC EN5311QI (U2) to MPM3834CGPA-Z and adapted power circuit.

Type: Schematic Change

Reason: EOL of Component.

Impact: None. Increased output current capability. Minor changes in electrical characteristics.

#4 Changed LED (D2, D3) from 150060VS75000 to 19-213/G6C-BM1N2/DT.

Type: Schematic Change

Reason: BOM Optimization.

Impact: None.

#5 Changed LED (D4) from 150 060 RS7 500 0 to 19-213/R6C-AL1M2VY/3T.

Type: Schematic Change

Reason: BOM optimization

Impact: None.

#6 Added 19.1 kOhm pull-up resistor for signals "ICE_SPI_CS" (R16) and "ICE_CRESET" (R17).

Type: BOM change

Reason: Use external pull-up resistor.

Impact: None.

#7 Added pull-up resistor (R9) for signal "HR_CS".

Type: Schematic change

Reason: Use external pull-up resistor.

Impact: None.

#8 Changed resistor (R1, R4, R5, R21, R22) from 3.3 kOhm to 4.22 kOhm.

Type: BOM change

Reason: BOM Optimization.

Impact: None.

#9 Changed resistor (R6, R7, R20, R39) from 10 kOhm to 19.1 kOhm.

Type: BOM change

Reason: BOM Optimization.

Impact: None.

#10 Added 470 nF decoupling capacitor (C8, C9, C10) for FPGA (U1) at power rail "3V3.

Type: Schematic change

Reason: Improve power rail.

Impact: None.

#11 Changed power net name style.

Old net name (TE0887-03)	New net name (TE0887-04)
1.2V	1V2
3.3V	3V3
5V	5V0

Type: Schematic Change

Reason: Use updated name style convention.

Impact: None.

#12 Added test point (TP1, TP2).

Type: Schematic Change

Reason: Improve voltage measurement possibilities.

Impact: None.

Method of Identification

The revision number is printed on the bottom side of the PCB.



Production Shipment Schedule

This change takes place with immediate effect. If the new revision is not suitable for your application and still the former revision of the board is needed, please contact us.

Contact Information

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

- forum.trenz-electronic.de
- wiki.trenz-electronic.de
- support@trenz-electronic.de (subject = PCN-20250207)
- phone
 - national calls: 05741 3200-0
 - international calls: 0049 5741 3200-0

Disclaimer

Any projected dates in this PCN are based on the most current product information at the time this PCN 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 PCN follows JEDEC Standard J-STD-046.