Company	Trenz Electronic GmbH
PCN Number	PCN-20201001
Title	TEBT0808-01 to TEBT0808-02 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2020-10-05

1 Products Affected

This change affects all Trenz Electronic TEBT0808-01 Carrier:

Affected Product	Replacement
TEBT0808-01	TEBT0808-02

2 Changes

2.1 #1 UART location moved from MIO68..69 to MIO42..43.

Type: Schematic change

Reason: Increase compability to other Trenz Electronic designs.

Impact: Used MIOs are associated with UART0 controller in contrast to the former used UART1.

2.2 2# Updated MIO loop back connections

Type: Schematic change

Reason: Follow up from #1

Impact: Loop back have changed to:
MIO48 connected to MIO49,
MIO68 connected to MIO74,
MIO69 connected to MIO75.

2.3 #3 Removed traceability pad.

Type: PCB change

Reason: Part is end of life.

Impact: Track it pad no more available.

2.4 #4 Added capacitors C22..25 and 0Ohm jumpers resistors R32..35 to MGT lines

Type: Schematic change

Reason: Prepare for connection of external signals.

Impact: MGT TX AC coupling capacitors are installed. MGT RX have serial 0Ohm resistors, if AC coupling is needed and not avialable at the external device, resistors could be replaced by capacitors.

2.5 #5 Added power protection circuitry U3

Type: Schematic change

Reason: Protect SoM.

Impact: Overvoltage, undervoltage and reverse supply protection are implemented.

2.6 #6 Added Schottky diode D1 to PS_BATT power supply circuit

Type: Schematic change

Reason: Recommended operation voltage for PS_BATT is max 1.5V.

Impact: PS_BATT is now within recommended operation voltage.

2.7 #7 Replaced inductor L2 (74479787210A) by MAMK2520T1R0M

Type: PCB change

Reason: Part 74479787210A is obsolete.

Impact: None.

2.8 #8 Resistors 10K were replaced by 5K1

Type: BOM change

Reason: BOM optimization.

Impact: None.

2.9 #9 Added placeholder for 3.81mm pitch terminal block (J17)

Type: Schematic change

Reason: Provide alternativ supply connector for easy connection of power.

Impact: Additional power supply connector possible (not assembled).

3 Method of Identification

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

4 Production Shipment Schedule

Revison 02 is available from mid of November 2020, if you still need the revision 01 please contact us.

5 Contact Information

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

- forum.trenz-electronic.de[1]
- wiki.trenz-electronic.de[2]
- support%trenz-electronic.de[3] (subject = PCN-20201001)
- phone
    - national calls: 05741 3200-0
    - international calls: 0049 5741 3200-0

6 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.

1 http://forum.trenz-electronic.de/
2 http://wiki.trenz-electronic.de/
3 mailto:support@trenz-electronic.de?subject=PCN-20201001