

# PCN-20201001 TEBT0808-01 to TEBT0808-02 Hardware Revision Change

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

## Products Affected

This change affects all Trenz Electronic TEBT0808-01 Carrier:

| Affected Product | Replacement |
|------------------|-------------|
| TEBT0808-01      | TEBT0808-02 |

## Changes

### #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# 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.

### #3 Removed traceability pad.

**Type:** PCB change

**Reason:** Part is end of life.

**Impact:** Track it pad no more available.

## #4 Added capacitors C22..25 and 00hm 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 00hm resistors, if AC coupling is needed and not available at the external device, resistors could be replaced by capacitors.

## #5 Added power protection circuitry U3

**Type:** Schematic change

**Reason:** Protect SoM.

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

## #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.

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

**Type:** PCB change

**Reason:** Part 74479787210A is obsolete.

**Impact:** None.

## #8 Resistors 10K were replaced by 5K1

**Type:** BOM change

**Reason:** BOM optimization.

**Impact:** None.

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

**Type:** Schematic change

**Reason:** Provide alternative supply connector for easy connection of power.

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

## Method of Identification

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



## Production Shipment Schedule

Revision 02 is available from mid of November 2020, if you still need the revision 01 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](https://forum.trenz-electronic.de)
- [wiki.trenz-electronic.de](https://wiki.trenz-electronic.de)
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de) (subject = PCN-20201001)
- 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.