

# PCN-20160706 TE0706-01 to TE00706-02 Hardware Revision Change

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<b>Company</b>	Trenz Electronic GmbH
<b>PCN Number</b>	PCN-20160706
<b>Title</b>	TE0706-01 to TE00706-02 Hardware Revision Change
<b>Subject</b>	Trenz Electronic TE0706 Hardware Change
<b>Issue Date</b>	20160706

## Products Affected

This change affects all Trenz Electronic TE0706 Carriers of revision: TE0706-01\*.

affected product	suggested upgrade
TE0706-01*	TE0706-02*

## Changes

### #1 Added Jumpers for VCCIO Voltage Strapping

**Type:** Layout change

**Reason:** Allow easier setting of IO Voltages

**Impact:** Voltage VCCIOA, VCCIOB, VCCIOC independent selectable (1.8V or 3.3V) via jumper J10, J11, J12. Boards are delivered now with default IO voltages of 1.8V. Check Jumper settings and change to your needs.

### #2 Changed PWR Connector to SMD type

**Type:** BOM change

**Reason:** Improve manufacturing

**Impact:** None

### #3 Swapped XMOD RX TX

**Type:** Layout change

**Reason:** Adapt to standard XMOD without special firmware.

**Impact:** XMOD with standard firmware needed.

## #4 Added 0 Ohm Resistor R31

**Type:** SCH change

**Reason:** Possibility to disconnect CLK125 for compatibility with modules having GTs

**Impact:** None

## #5 Replaced Micro USB Connector J8 to Würth 629105150521

**Type:** BOM change

**Reason:** Better mechanical stability

**Impact:** None

## #6 Added Ferrite Beads L1

**Type:** BOM change

**Reason:** Improve Ethernet PHY power supply

**Impact:** None

## #7 Full Update from Library

**Type:** PCB change

**Reason:** Improve manufacturing

**Impact:** None

## #8 Added Track-it™ Traceability Pad

**Type:** BOM change

**Reason:** Allow automated identification of module

**Impact:** None

## #9 Added Thermal Vias to Mount Holes

**Type:** Layout change

**Reason:** Better thermal performance

**Impact:** None

## #10 Replaced MagJack Connectors from WE7499111446 to TRJG4820G4NL

**Type:** BOM change

**Reason:** Cost saving

**Impact:** None

## #11 Remove R22

**Type:** BOM change

**Reason:** R22 on SD\_CLK not needed

**Impact:** None

## #12 Added diode D1

**Type:** SCH change

**Reason:** Improve power input protection

**Impact:** None

## #13 Changed Power Good pull up voltage from 3.3V to VIN

**Type:** SCH change

**Reason:** Prepare for future use.

**Impact:** None (PG now correct working, but currently not used)

## #14 Changed R24 to 4.9 KOhm

**Type:** SCH change

**Reason:** Improve reliability with stronger pullup

**Impact:** None

## #15 25 MHz Oscillator Updated from Rev A to B

**Type:** SCH change

**Reason:** Production homogenization

**Impact:** None

## #16 Pin Header J9 (VBAT) not fitted

**Type:** SCH change

**Reason:** Cost saving

**Impact:** If VBAT is used a pin header has to be solderd

## #17 Update U2 MP5010 Rev A by Rev B

**Type:** BOM change

**Reason:** Production homogenization

**Impact:** None

## Method of Identification

The model code and revision number (e.g. TE0706-01 or TE0706-02) are printed on the top side of the PCB.

## Production Shipment Schedule

From August 2016, after REV 01 stock is gone.

## Contact Information

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

- [forum.trenz-electronic.de](http://forum.trenz-electronic.de)
- [wiki.trenz-electronic.de](http://wiki.trenz-electronic.de)
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de) (subject = PCN-20160706)
- phone
  - national calls: 05223 65301-0
  - international calls: 0049 5223 65301-0

## 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.