

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

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Company	Trenz Electronic GmbH
PCN Number	PCN-20160706
Title	TE0706-01 to TE00706-02 Hardware Revision Change
Subject	Trenz Electronic TE0706 Hardware Change
Issue Date	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
- wiki.trenz-electronic.de
- 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.