PCN-20221116 TEI0003-02 to TEI0003-03 Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20221116
Title	TEI0003-02 to TEI0003-03 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2023-01-17

Products Affected

This change affects all Trenz Electronic TEI0003 boards: TEI0003-02*.

Affected Product	Replacement	Note
TEI0003-02	TEI0003-03-QFCR1A TEI0003-03-QFCR4A	Variant QFCR1A uses the same EOL flash as TEI0003-02. This variant can be ordered as long this flash is available and is EOL afterwards. Then, variant QFCR4A is the successor.

Changes

#1 Added option to use either SPI Flash EPCQ16SI8N / EPCQ16ASI8N (U5) or SPI Flash W25Q64JVSSIQ (U12).

Type: Schematic Change

Reason: EOL of SPI Flash.

Impact: Memory sizes and frequencies are dependent on the used variant (Intel Cyclone 10 based modules).

#2 Changed ferrid bead LI0402E300R-10 to MPZ0603S121HT000 for L1, L2, L3, and L4.

Type: Schematic Change

Reason: EOL of Component.

Impact: None. Minor changes in electrical characteristics.

#3 Changed clock DSC6011ME2A-012.0000T to DSC6011ME2B-012.0000T for U6.

Type: Schematic Change

Reason: EOL of Component

Impact: None. This clock is not assembled.

#4 Added capacitor C59 for net USB_VBUS.

Type: Schematic Change

Reason: Improve power supply.

Impact: None. Minor changes in electrical characteristics.

#5 Changed DCDC EP53A7HQI (U8) / EP53A7LQI (U10) to MPM3834CGPA-Z for U8 and U10 and adapted power circuit.

Type: Schematic Change

Reason: EOL of Component.

Impact: None. Minor changes in electrical characteristics.

#6 Added UKCA logo.

Type: PCB Change

Reason: Requiered for export to UK.

Impact: None.

#7 Added pin description on silkscreen layer.

Type: PCB Change

Reason: Improves pinout documentation.

Impact: None.
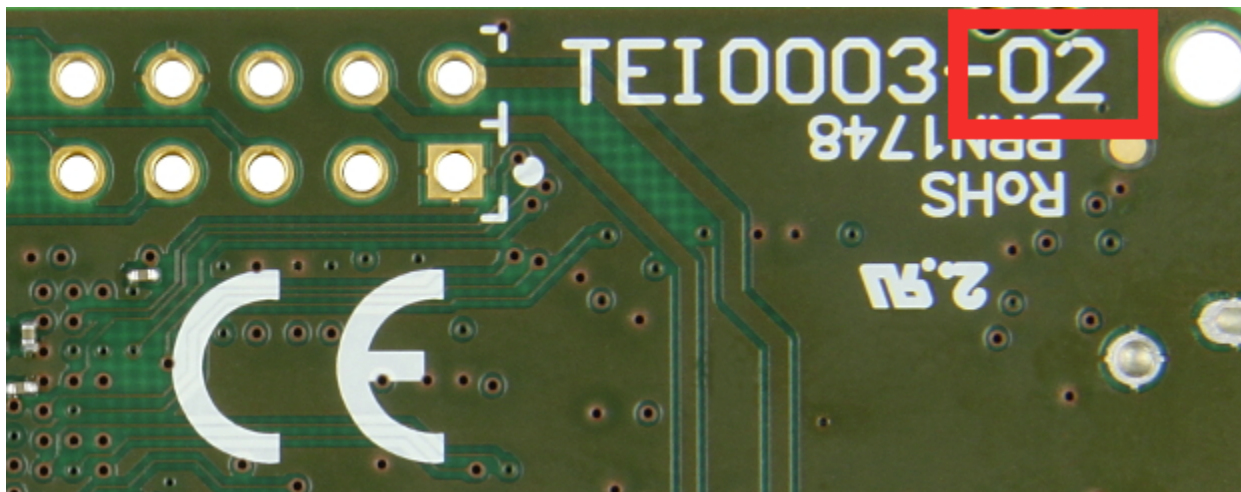
#8 Updated components from library.

Type: Schematic Change

Reason: Use latest component data.

Impact: None.

Method of Identification

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

Production Shipment Schedule

From August 2023, after old stock is gone. 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-20221116)
- 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.