PCN-20200616 TE0820-03 to TE0820-04 Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20200616
Title	TE0820-03 to TE0820-04 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2020-08-13

Products Affected

This change affects all Trenz Electronic TE0820 SoMs of revision 03: TE0820-03-*.

Affected Product	Replacement
TE0820-03-*	TE0820-04-*

Changes

#1 Added DDR4 connection BG1

Type: Schematic change

Reason: Support different DDR4 chips.

Impact: Support of B-die DDR4 Industrial grade chips

#2 Changed U28 to TPS27081ADDCR, added R93, changed value of C62

Type: Schematic change

Reason: Former chip not recommended for new designs.

Impact: None. With R93 and changed value of C62 the circuit behaves as before.

#3 Added R89

Type: Schematic change

Reason: Datasheet recommendation.

Impact: None.

#4 Added capacitors 4.7uF to PS_AVTT/PS_AVCC

Type: Schematic change

Reason: Recommended by Xilinx UG583.

Impact: None.

#5 Changed R51 to 10K Ohm

Type: BOM change

Reason: Recommended by Xilinx DS925 v1.17

Impact: None.

#6 Fixed DDR4 connection (Alert)

Type: Schematic change

Reason: Alert signal was connected to VTT.

Impact: None. Alert signal connected to DDR_1V2.

#7 Added 3.3V signal to CPLD pin 5

Type: Schematic change

Reason: Request for power good signal at CPLD.

Impact: State of 3.3V rail can be evaluatet in CPLD Firmware.

#8 Added testpoints

Type: Schematic change

Reason: Testpoints needed for improved automatic testing.

Impact: More testpoints available.

#9 LIB components update

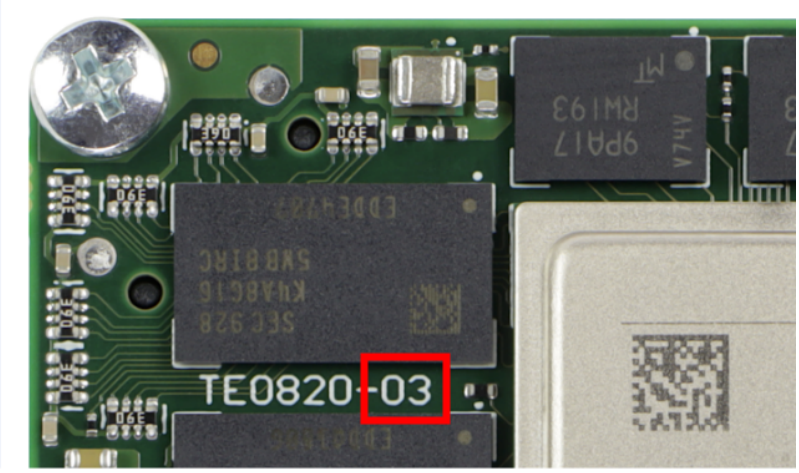
Type: Schematic change

Reason: Improve production yield.

Impact: None.

Method of Identification

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



Production Shipment Schedule

The new revison 04 is available from August 2020, after old Stock is gone. If you still need revision 03 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-20200616)
- 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.