

PCN-20181214 TEF1001-01 to TEF1001-02 Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20181214
Title	TEF1001-01 to TEF1001-02 Hardware Revision Change
Subject	Trenz Electronic TE0803 Hardware Change
Issue Date	20181214

Products Affected

This change affects all variations of TEF1001 SoMs of revision: TEF1001-01-*

affected product	suggested upgrade
TEF1001-01-*	TEF1001-02-*

Changes

#1 Added C87, C88 4.7μF

Type: Schematic change

Reason: Enhance PL internal supply voltage ripple.

Impact: None

#2 C154 Incremented from 27pF to 33pF

Type: BOM change

Reason: Adjust feed back compensation capacitor of 1.8V DCDC for best performance.

Impact: None

#3 Routed 12V Input from PCIe Edge Connector, Added Input Power Protection Circuits for ATX 12V and PCIe Edge Connector (U23 with T1, T2 and U24 with T5, T6, Resistors and Capacitors), Power Priority Switch T3

Type: Enhancement

Reason: Allow for using PCIe power supply, protect against over and under voltage.

Impact: Card can be supplied by PCIe edge connector (max 25W), but if ATX supply is connected this has priority.

#4 Added 4xDip Switch S1

Type: Schematic change

Reason: Allow for easily selection of FMC VADJ and enable JTAG interface of SC CPLD U5.

Impact: FMC VADJ adjustable to 3.3V, 2.5V, 1.8V, 1.5V, 1.25V, 1.2V, 0.8V via S1-2 to S1-4. System Controller JTAG accessible when S1-1 is on.

#5 Added Transistor T4 and Resistors

Type: Enhancement

Reason: Read the FMC_PRSENT_M2C Value

Impact: System controller is able to evaluate if FMC is present or not.

#6 Added Power Switch U25 and Capacitors

Type: Enhancement

Reason: Possibility to switch the FMC fan.

Impact: FMC fan can be switched by system controller. In the current system controller design the fan is switched on when FMC is present.

#7 Added 10 x LEDs, D1-D10 and Levelshifter (U11, U21, U22)

Type: Enhancement

Reason: Provide possibility for feedback to user

Impact: 10 user LEDs connected to FPGA logic available.

Method of Identification

The model code and revision number (e.g. TEF1001-01 or TEF1001-02) are printed on the top side of the PCB.

Production Shipment Schedule

After November 2018.

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-20181214)
- 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.