PCN-20150121 TE0720 CPLD Revision upgrade 02 - 03

Company	Trenz Electronic Gmbh
PCN Number	PCN-20150121
Title	TE0720 CPLD Revision upgrade 02 - 03
Subject	Trenz Electronic TE0720 SoM (system on module): CPLD Firmware upgrade to revision 03
Issue Date	2015-01-21

Products Affected

This change affects all Trenz Electronic TE0720 SoMs of revision: TE0720-02-*.

Changes

#1 Bootmode is now latched on Reset

Type: Enhancement

Reason: possible wrong bootmode latched under certain power up conditions

Impact: Bootmode is now latched with every Reset, not only at powerup.

Method of Identification

All serial numbers starting with the following numbers will have CPLD Revision 03 or later.

Variant	Starting number
TE0720-02-1CF	445958
TE0720-02-1CR	445804
TE0720-02-1QF	447873
TE0720-02-2EF	445736
TE0720-02-2IF	446790 444860-444865

It is possible to check the CPLD revision change on any base board or custom board where MODE pin value can be changed by switch or jumper. If the blink rate of the RED on module LED changes after changing the MODE pin setting and resetting the TE0720 (without power-down) then the CPLD revision is 03, if the blink rate (and boot mode) change requires powering off the module then the CPLD version is 02.

It is also possible to check the CPLD revision from u-boot by typing "**mii read 0x1a 4**" from u-boot prompt, the low order bits printed out as hex number are CPLD revision number.

Update procedure

TE0720-02 CPLD update can be done in-system on TE0703 baseboard or other carrier boards that support updating SC in-system.

https://wiki.trenz-electronic.de/display/TE0720/SC+Update

Production Shipment Schedule

From 21.1.2015

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-20150121)
- 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.