

# PCN-20150408 TE0720 CPLD Revision upgrade 03 - 04

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|-------------------|--------------------------------------------------------------------------------------|
| <b>Company</b>    | Trenz Electronic Gmbh                                                                |
| <b>PCN Number</b> | PCN-20150408                                                                         |
| <b>Title</b>      | TE0720 CPLD Revision upgrade 03 - 04                                                 |
| <b>Subject</b>    | Trenz Electronic TE0720 SoM (system on module): CPLD Firmware upgrade to revision 03 |
| <b>Issue Date</b> | 2015-01-21                                                                           |

## Products Affected

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

## Changes

### #1 Reset Delay introduced after Xilinx Design Advisory AR# 63149

**Type:** Enhancement

**Reason:** possible secure lock down during reset. See: <http://www.xilinx.com/support/answers/63149.html>

**Impact:** Reset delay of 70ms added.

### #2 MODE pin internal pullup is stronger (still only weak pullup)

**Type:** Enhancement

**Reason:** Improve noise immunity on mode pin

**Impact:** None

### #3 ID changes

- SC REV code changed to 0x04
- TRACEID changed to 0x02
- JTAG Usercode changed to 0xE7200204

## Method of Identification

All serial numbers starting with the following numbers will have CPLD Revision 04 or later.

| Variant       | Starting number |
|---------------|-----------------|
| TE0720-02-1CF | 452098          |
| TE0720-02-1CR | 452032          |
| TE0720-02-1QF | 453438          |

|                |                           |
|----------------|---------------------------|
| TE0720-02-2EF  | replaced by TE0720-02-2IF |
| TE0720-02-2IF  | 450123                    |
| TE0720-02-L1IF | 453014                    |

It is 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

Module produced from April 2015 will have REV 04 or later.

## Contact Information

If you have any questions related to this PCN, please contact Trenz Electronic's Technical Support at

- [forum.trenz-electronic.de](http://forum.trenz-electronic.de)
- [wiki.trenz-electronic.de](http://wiki.trenz-electronic.de)
- [support@trenz-electronic.de](mailto: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.