

# PCN-20190717 TE0720-03-1CFA-S Carrier Hardware Revision Change

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<b>Company</b>	Trenz Electronic GmbH
<b>PCN Number</b>	PCN-20190717
<b>Title</b>	TE0720-03-1CFA-S Carrier Hardware Revision Change
<b>Subject</b>	Carrier Hardware Revision Change
<b>Issue Date</b>	2019-07-17

## Products Affected

This change affects TE0720-03-1CFA-S, which includes carrier TE0703. This carrier is subject to a hardware revision change from TE0703-05 to TE0703-06.

## Changes

### #1 Changed micro SD card connector (J3)

**Type:** BOM change

**Reason:** Demand for industrial temperature range

**Impact:** Specified for industrial temperature range

### #2 Changed push button (S1)

**Type:** BOM change

**Reason:** Demand for industrial temperature range

**Impact:** Specified for industrial temperature range

### #3 Replaced input power protection

**Type:** Optimization

**Reason:** Cost savings

**Impact:** None

### #4 Added jumper (J11) to select SD level shifter voltage on FPGA side

**Type:** Schematic change

**Reason:** Modules have 1.8 V or 3.3 V bank power where SD signals are connected

**Impact:** Select SD level shifter voltage according to module specification

## #5 Added power switch for SD level shifter supply voltages

**Type:** Schematic change

**Reason:** Ensure power sequencing of level shifter

**Impact:** Power sequencing respected under any circumstances

## #6 Replaced R5 by 1 kOhm and VBUS capacitors by 4.7 µF, add 0 Ohm resistors to OTG-ID net

**Type:** BOM change

**Reason:** Ensure USB-OTG compability

**Impact:** Board compatible to new version with microUSB connector and OTG capability

## #7 Replaced jumpers by SMD versions, moved VBAT to other position

**Type:** Layout change

**Reason:** Optimize production cost

**Impact:** None

## #8 Routing lenght of differential pairs B34\_L17, B34\_L15, B34\_L21, B34\_L13, B34\_L10, B34\_L20 changed

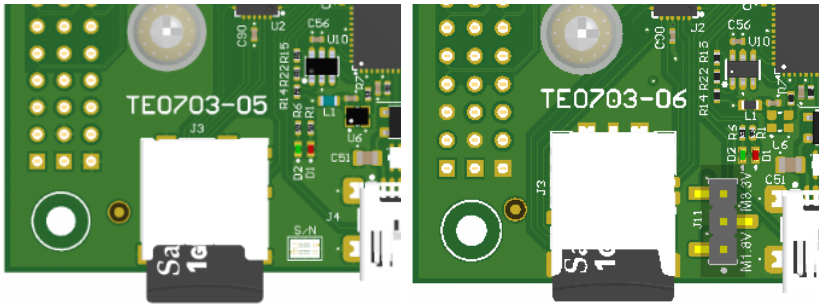
**Type:** Layout change

**Reason:** Other changes and limited space on PCB

**Impact:** Applications with exact timing requirements on these IOs have to be checked and if necessary adjusted

## Method of Identification

The model code and revision number of the carrier (e.g. TE0703-05 or TE0703-06) are printed on the top side of the PCB above the SD card slot.



## Production Shipment Schedule

July 2019, 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 Electronic's Technical Support at

- [forum.trenz-electronic.de](https://forum.trenz-electronic.de)
- [wiki.trenz-electronic.de](https://wiki.trenz-electronic.de)
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de) (subject = PCN-20190717)
- 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.