

PCN-20200806 TE0724-03 to TE0724-04 Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20200806
Title	TE0724-03 to TE0724-04 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2020-09-04

Products Affected

This change affects all Trenz Electronic TE0724 SoMs of revision 03: TE0724-03-.*.

Affected Product	Replacement
TE0724-03-10-1I	TE0724-04-41I33-A
TE0724-03-20-1I	TE0724-04-61I33-A

Changes

#1 Replaced I2C pullups by 2K (R20 and R21)

Type: BOM change

Reason: Pullups too weak in similar configurations.

Impact: None.

#2 Connected WP (pin 7) of EEPROM (U10) via R79 GND, added not fitted R72 to 1.8V rail.

Type: Schematic change

Reason: EEPROM was constantly write protected or had to be patched.

Impact: EEPROM is not write protected, no patch needed. For enabling write protection R72 can be assembled instead of R79.

#3 Changed C7, C8, C21, C47, C74, C91 from X5R to X7S

Type: BOM change

Reason: This parts were identified as critical for very high ambient temperatures.

Impact: None. Parts are specified for up to 125°C and therefore the module can cope better with higher ambient temperatures.

#4 Moved following components away from FPGA: C28, C29, C77, C80, R2, R12, R18, R43, R47, R51, R54, R57, R62, L8, L9.

Type: PCB change

Reason: Request for usage of BGA cooler with clip on mounting frame.

Impact: BGA cooler can now be used without any interfering components. No other impact, all Routing length have been perserved.

#5 Replaced DDR3 from IM4G16D3FABG-125I to IS43TR16256BL-125KBLI

Type: BOM change

Reason: Part is obsolete.

Impact: New DDR timings need to be considered in designs.

#6 Replaced Flash from S25FL256SAGBHI20 to IS25LP512M-RHLE

Type: BOM change

Reason: Ensure long time availability.

Impact: Jedec Manufacturer ID changed from 01h to 9Dh, the device ID from 18h to 19h. 512Mbit flash are now available.

#7 Set S/N to not fitted.

Type: BOM change

Reason: Part is end of life.

Impact: Track it pad no more available.

#8 Added legal notices to Schematic

Type: Documentation change

Reason: Increase awareness of legal usage.

Impact: None.

#9 Full update from Library

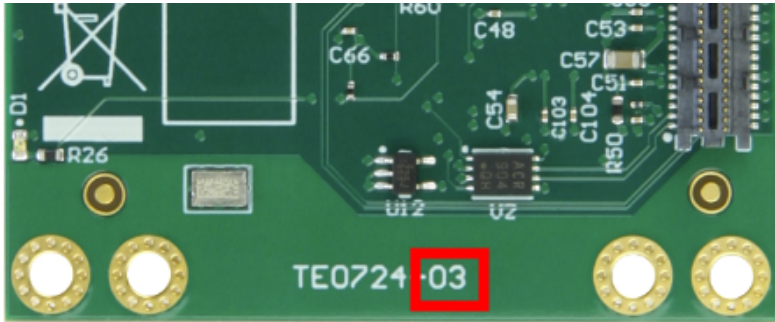
Type: PCB change

Reason: Improve production yield.

Impact: None.

Method of Identification

The revision number is printed on both sides of the PCB.



Production Shipment Schedule

The new revision 04 is available from January 2021, 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-20200806)
- 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.