

<b>Company</b>	Trenz Electronic GmbH
<b>PCN Number</b>	PCN-20230110
<b>Title</b>	CR00103-02 to CR00103-03 Hardware Revision Change
<b>Subject</b>	Hardware Revision Change
<b>Issue Date</b>	2023-01-17

## 1 Products Affected

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This change affects all Trenz Electronic CR00103 SoMs: CR00103-02\*.

<b>Affected Product</b>	<b>Replacement</b>
CR00103-02-A	CR00103-03-A

## 2 Changes

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### 2.1 #1 Replaced DCDCs EP53A7HQB/EP53A7HLI (U4, U6, U8, U10) by MPM3834CGPA.

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**Type:** Schematic Change

**Reason:** EOL of Component.

**Impact:** None. Minor changes in electrical characteristics, e.g. changed switching frequency, maximum current capability is increased.

### 2.2 #2 Replaced priority power MUX TPS2121RUXR (U13) by priority power circuit based on MOSFETs AON2803 (T1, T3) and BSD840NH6327XTSA1 (T2) or AO7800 (T2).

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**Type:** Schematic Change

**Reason:** BOM Optimization.

**Impact:** None. Minor changes in electrical characteristics.

## 2.3 #3 Added circuit for DCDC MPM3834CGPA (U4) to select output voltage VADJ (1.2V or 1.8V).

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**Type:** Schematic Change

**Reason:** Enable output voltage selection.

**Impact:** None. Minor changes in electrical characteristics.

## 2.4 #3 Added testpoints (TP1...TP14).

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**Type:** Schematic Change

**Reason:** Voltage supervision improvement.

**Impact:** None.

## 2.5 #4 Updated components from library.

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**Type:** Schematic Change

**Reason:** Use latest component data.

**Impact:** None.

## 2.6 #5 Added UKCA logo.

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**Type:** PCB Change

**Reason:** Required for export to UK.

**Impact:** None.

## 2.7 #6 Updated page numbering.

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**Type:** Documentation Update

**Reason:** Page numbering improvement.

**Impact:** Page six to eight is moved to page five to seven.

## 2.8 #7 Updated revision history.

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**Type:** Documentation Update

**Reason:** Updated revision history.

**Impact:** None.

## 3 Method of Identification

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The revision number is printed on the top side of the PCB.



## 4 Production Shipment Schedule

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This change takes place with immediate effect. If the new revision is not suitable for your application and still the former revision of the board is needed, please contact us.

## 5 Contact Information

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

- [forum.trenz-electronic.de](http://forum.trenz-electronic.de)<sup>1</sup>
- [wiki.trenz-electronic.de](http://wiki.trenz-electronic.de)<sup>2</sup>
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de)<sup>3</sup> (subject = PCN-20230110)
- phone
  - national calls: 05741 3200-0
  - international calls: 0049 5741 3200-0

## 6 Disclaimer

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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.

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<sup>1</sup> <http://forum.trenz-electronic.de/>

<sup>2</sup> <http://wiki.trenz-electronic.de/>

<sup>3</sup> <mailto:support@trenz-electronic.de?subject=PCN-20230110>