

<b>Company</b>	Trenz Electronic GmbH
<b>PCN Number</b>	PCN-20211018
<b>Title</b>	TE0741-03 to TE0741-04 Hardware Revision Change
<b>Subject</b>	Hardware Revision Change
<b>Issue Date</b>	2021-11-23

## 1 Products Affected

This change affects all Trenz Electronic TE0741 SoMs of revision 03:

<b>Affected Product</b>	<b>Replacement</b>
TE0741-03-070-2CF	TE0741-04-A2C-1-A
TE0741-03-070-2IF	TE0741-04-A2I-1-A
TE0741-03-160-2C1	TE0741-04-B2C-1-AF
TE0741-03-160-2CF	TE0741-04-B2C-1-A
TE0741-03-160-2IF	TE0741-04-B2I-1-A
TE0741-03-325-2CF	TE0741-04-D2C-1-A
TE0741-03-325-2IF	TE0741-04-D2I-1-A
TE0741-03-410-2CF	TE0741-04-G2C-1-A
TE0741-03-410-2IF	TE0741-04-G2I-1-A
TE0741-03-B3E-1-AF	TE0741-04-B3E-1-AF
S00014	TE0741-04-S002C1

## 2 Changes

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### 2.1 #1 Replaced EN63A0QI (U14, U15) by LTM4638EY#PBF

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**Type:** Schematic change

**Reason:** Enpirion DCDCs are discontinued.

**Impact:** None. Maximum continuous output current increased from 12A to 15A per DCDC.

### 2.2 #2 Replaced EP53F8QI (U6, U8, U16) by TPS82085SIL

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**Type:** Schematic change

**Reason:** Enpirion DCDCs are discontinued.

**Impact:** None. Maximum continuous output current of DCDC increased from 1.5A to 3A on each rail.

### 2.3 #3 Replaced TPS27082LDDCR (Q1) by TPS27081ADDCR

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**Type:** Schematic change

**Reason:** Part is EOL.

**Impact:** None.

### 2.4 #4 Signal trace lengths changed

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**Type:** PCB change

**Reason:** Result of changes above.

**Impact:** Changed trace length have to be taken into account in existing designs. The trace length for new revision are added to the [4x5 series pinout generator](https://shop.trenz-electronic.de/trenzdownloads/Trenz_Electronic/Pinout/4x5_series_pinout_tracelength.xlsx)<sup>1</sup>. Please check if change in trace length still matches your requirements. Adaption of carrier may be necessary.

### 2.5 #5 Added resistor R41 and DNP R40

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**Type:** Schematic change

**Reason:** Add customization option for external sourcing of VBAT.

**Impact:** External sourcing of VBAT possible when R40 installed and R41 not installed.

### 2.6 #6 S/N removed

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**Type:** BOM change

**Reason:** Part is end of life.

**Impact:** Track it pad no more available.

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<sup>1</sup> [https://shop.trenz-electronic.de/trenzdownloads/Trenz\\_Electronic/Pinout/4x5\\_series\\_pinout\\_tracelength.xlsx](https://shop.trenz-electronic.de/trenzdownloads/Trenz_Electronic/Pinout/4x5_series_pinout_tracelength.xlsx)

## 2.7 #7 PCB revision bits updated

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**Type:** Schematic change

**Reason:** PCB revision changed.

**Impact:** REV\_ID2..0 pins are connected to contain the value for REV04. They changed from "011" to "100".

## 2.8 #8 Full update LIB

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**Type:** Sch/PCB Change

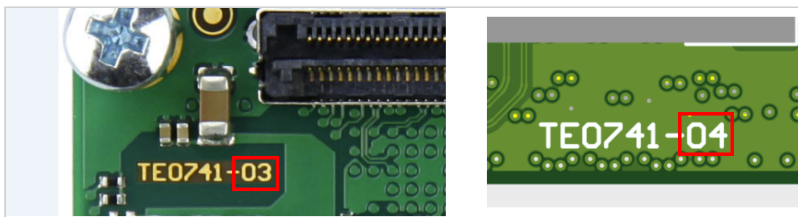
**Reason:** Improve production yield.

**Impact:** None.

## 3 Method of Identification

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The revision number is printed on the PCB, revision 03 on bottom, revision 04 on top side.



## 4 Production Shipment Schedule

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The new revision 04 will be shipped from Juli 2022, after old stock is gone.

## 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>2</sup>
- [wiki.trenz-electronic.de](http://wiki.trenz-electronic.de/)<sup>3</sup>
- [support@trenz-electronic.de](mailto:support@trenz-electronic.de)<sup>4</sup> (subject = PCN-20211018)
- phone
  - national calls: 05741 3200-0
  - international calls: +49 5741 3200-0

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

<sup>3</sup> <http://wiki.trenz-electronic.de/>

<sup>4</sup> <mailto:support@trenz-electronic.de?subject=PCN-20211018>

## 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.