

<b>Company</b>	Trenz Electronic GmbH
<b>PCN Number</b>	PCN-20210226
<b>Title</b>	TE0782-02 DDR3, EMMC Change and Product Update
<b>Subject</b>	BOM change
<b>Issue Date</b>	2021-03-12

## 1 Products Affected

This change affects all Trenz Electronic TE0782 SoMs of revision 02: TE0782-02-\*

Affected Product	Replacement
TE0782-02-035-2I	TE0782-02-82I33FA
TE0782-02-045-2I	TE0782-02-92I33FA
TE0782-02-045-2IC	TE0782-02-92I33FH
TE0782-02-100-2I	TE0782-02-A2I33FA

## 2 Changes

### 2.1 #1 Change DDR3 RAM (U10, U19) from IM4G16D3FABG-125I to IS43TR16256BL-125KBLI

**Type:** BOM change

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

**Impact:** New DDR timings may be considered in designs. DDR3 setup used in reference design is known to work still.

### 2.2 #2 Change eMMC (U15) from MTFC4GACAJCN-4M IT to IS21ES08G-JCLI

**Type:** BOM change

**Reason:** Improve availability.

**Impact:** The eMMC capacity changed from 4 GByte to 8 GByte.

## 2.3 #3 Clock Revision Change (U7, U61) SiT8008AI-... to SiT8008BI-...

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**Type:** BOM change

**Reason:** Switch to actual revision. Revision A devices may be discontinued.

**Impact:** None.

## 2.4 #4 Change Ferrite Beads (L1 .. L10, L51, L53) BKP0603HS121-T to MPZ0603S121HT000

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**Type:** BOM change

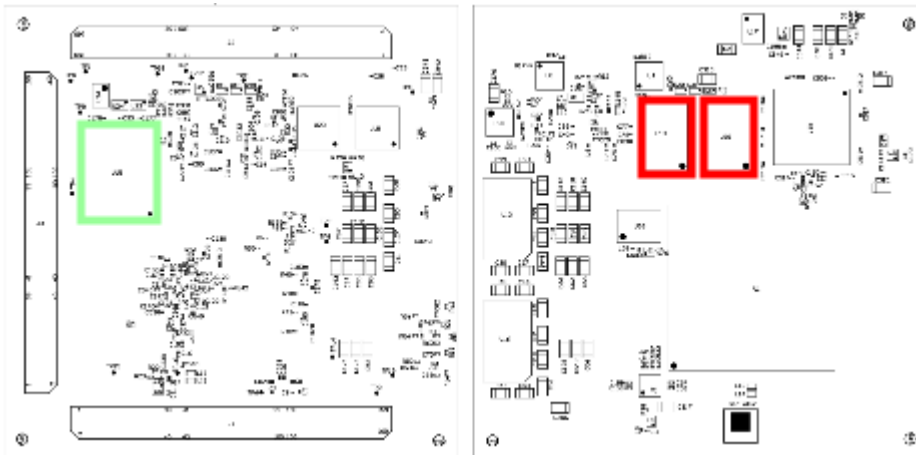
**Reason:** Part is NRND and EOL announced.

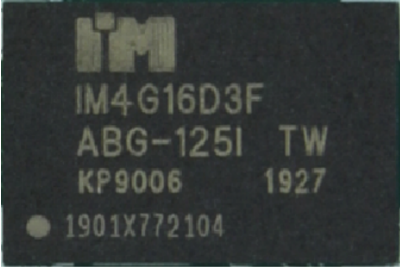



**Impact:** None. DC resistance decreased from 150mOhm to 130mOhm, rated current increased from 0.85A to 1A.

## 3 Method of Identification

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Locate DDR3 RAM (U10, U19) on bottom and eMMC (U15) on top side of PCB:



old	new
<p><b>IM4G16D3FABG-125I</b></p>	<p><b>IS43TR16256BL-125KBLI</b></p>
 <p>IM IM4G16D3F ABG-125I TW KP9006 1927 1901X772104</p>	 <p>ISSI 2001 IS43TR16256BL -125KBLI K096 MLP758000Y1 TWN</p>
<p><b>MTFC4GACAJCN-4M IT</b></p>	<p><b>IS21ES08G-JCLI</b></p>
 <p>56IP 9XA17 JY001</p>	 <p>ISSI 1945 IS21ES08G -JCLI DP1231478Y1</p>

## 4 Production Shipment Schedule

From end of Juli 2021, after old stock is gone.

## 5 Contact Information

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?subject=PCN-20210226)<sup>3</sup> (subject = PCN-20210226)

<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-20210226>

- phone
  - national calls: 05741 3200-0
  - international calls: +49 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.