

# PCN-20210219 TE0745-02 DDR3 Change and Product Update

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|-------------------|------------------------------------------|
| <b>Company</b>    | Trenz Electronic GmbH                    |
| <b>PCN Number</b> | PCN-20210219                             |
| <b>Title</b>      | TE0745-02 DDR3 Change and Product Update |
| <b>Subject</b>    | BOM change                               |
| <b>Issue Date</b> | 2021-03-09                               |

## Products Affected

This change affects all Trenz Electronic TE0745 SoMs of revision 02: TE0745-02-\*

| Affected Product   | Changes        | Replacement                      |
|--------------------|----------------|----------------------------------|
| TE0745-02-71I11-A  | #1, #2, #3, #4 | TE0745-02-71I31-A                |
| TE0745-02-71I11-AK | #1, #2, #3, #4 | TE0745-02-71I31-AK               |
| TE0745-02-72I11-A  | #1, #2, #3, #4 | TE0745-02-72I31-A                |
| TE0745-02-73E31-A  | #2, #3, #4     | TE0745-02-73E31-A <sup>(1)</sup> |
| TE0745-02-81C11-A  | #1, #2, #3, #4 | TE0745-02-81C31-A                |
| TE0745-02-81C11-AK | #1, #2, #3, #4 | TE0745-02-81C31-AK               |
| TE0745-02-91C11-A  | #1, #2, #3, #4 | TE0745-02-91C31-A                |
| TE0745-02-92I11-A  | #1, #2, #3, #4 | TE0745-02-92I31-A                |
| TE0745-02-92I11-AK | #1, #2, #3, #4 | TE0745-02-92I31-AK               |
| TE0745-02-92I11-B  | #1, #2, #3, #4 | TE0745-02-92I31-B                |
| TE0745-02-92I11-F  | #1, #2, #3, #4 | TE0745-02-92I31-F                |
| TE0745-02-93E11-A  | #1, #2, #3, #4 | TE0745-02-93E31-A                |
| TE0745-02-93E11-KA | #1, #2, #3, #4 | S00021-02                        |
| S00005             | #1, #2, #3, #4 | S00005-02                        |

<sup>(1)</sup> This variant has already ISSI DDR3 assembled, therefore the article number is not changed. See also section Method of Identification.

## Changes

## #1 Change DDR3 RAM (U3, U5) 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 Clock Revision Change (U33) SiT8008AI-73-XXS-52.000000E to SiT8008BI-73-XXS-52.000000E

**Type:** BOM change

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

**Impact:** None.

## #3 Change Ferrite Beads (L1 .. L7, L11 .. L13) BKP0603HS121-T to MPZ0603S121HT000

**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.

## #4 Set S/N to not fitted

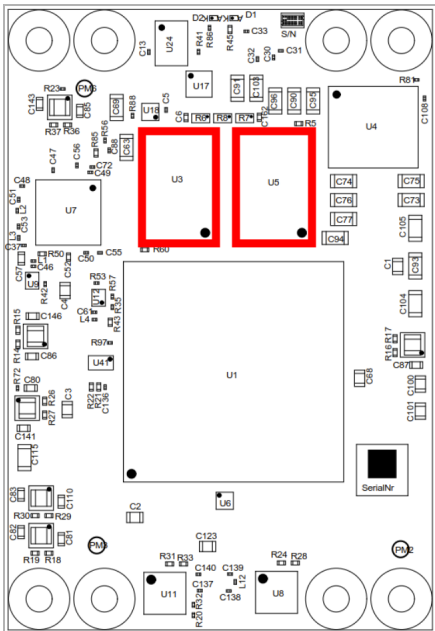
**Type:** BOM change

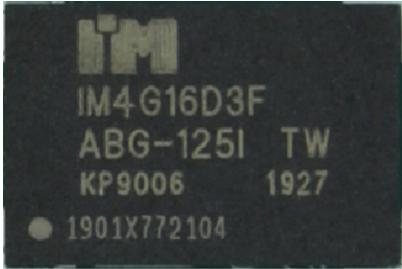
**Reason:** Part is end of life.

**Impact:** Track it pad no more available. Pin 20 of CPLD was connected via S/N to GND and is now floating. However pin is not used in delivery CPLD Firmware, so no further impact.

## Method of Identification

Locate DDR3 RAM (U3, U5) on top side of PCB:



| old                                                                                 | new                                                                                 |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>IM4G16D3FABG-125I</b>                                                            | <b>IS43TR16256BL-125KB LI</b>                                                       |
|  |  |

Only for variant TE0745-02-73E31-A: DDR3 was already ISSI IS43TR16256BL-125KB LI. TE0745-02-73E31-A modules with serial number greater than 68 4418 are affected by the changes.

## Production Shipment Schedule

From end of Juli 2021, after old stock is gone, all variants above are replaced by the corresponding variants.

## Contact Information

If you have any questions related to this PCN, please contact Trenz Electronics 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-20210219)
- phone
  - national calls: 05741 3200-0
  - international calls: +49 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.