

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

1 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 ⁽¹⁾
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

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

2 Changes

2.1 #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.

2.2 #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.

2.3 #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.

2.4 #4 Set S/N to not fitted

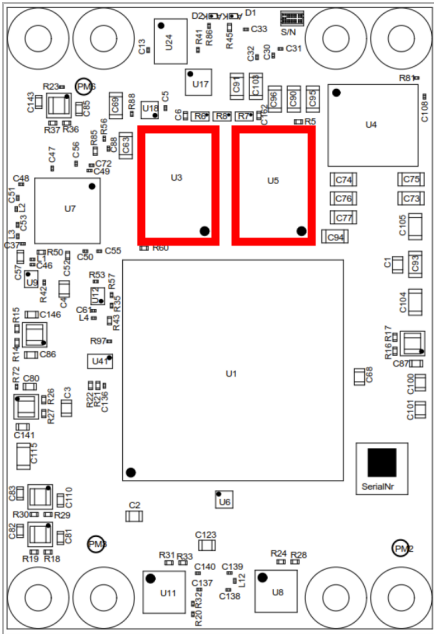
Type: BOM change

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.

3 Method of Identification

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



old	new
IM4G16D3FABG-125I	IS43TR16256BL-125KBLI
	

Only for variant TE0745-02-73E31-A: DDR3 was already ISSI IS43TR16256BL-125KBLI. TE0745-02-73E31-A modules with serial number greater than 684418 are affected by the changes.

4 Production Shipment Schedule

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

5 Contact Information

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

- forum.trenz-electronic.de¹
- wiki.trenz-electronic.de²
- support@trenz-electronic.de³ (subject = PCN-20210219)
- phone
 - national calls: 05741 3200-0
 - international calls: +49 5741 3200-0

6 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.

¹ <http://forum.trenz-electronic.de/>

² <http://wiki.trenz-electronic.de/>

³ <mailto:support@trenz-electronic.de?subject=PCN-20210219>