

PCN-20210227 TE0783-02 DDR3, EMMC Change and Product Update

[Download PDF version of this document.](#)

Company	Trenz Electronic GmbH
PCN Number	PCN-20210227
Title	TE0783-02 DDR3, EMMC Change and Product Update
Subject	BOM change
Issue Date	2021-03-26

Products Affected

This change affects all Trenz Electronic TE0783 SoMs of revision 02: TE0783-02-*

Affected Product	Changes	Replacement
TE0783-02-045-2I	#1, #2, #3, #4	TE0783-02-92I33FA
TE0783-02-100-2I	#1, #2, #3, #4	TE0783-02-A2I33FA
TE0783-02-92I35HA	#3, #4, #5	TE0783-02-92I33HA

Changes

#1 Change DDR3 RAM (U8, U9, U10, U12, U14, 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 Change eMMC (U28) from MTFC4GACAJCN-4M IT to IS21ES08G-JCLI

Type: BOM change

Reason: Improve availability.

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

#3 Clock Revision Change (U7, U28, U61) SiT8008AI-... to SiT8008BI-...

Type: BOM change

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

Impact: None.

#4 Change Ferrite Beads (L1 .. L7, L9, L10, L15, L51, L53) BKP0603HS121-T to MPZ0603S121HT000

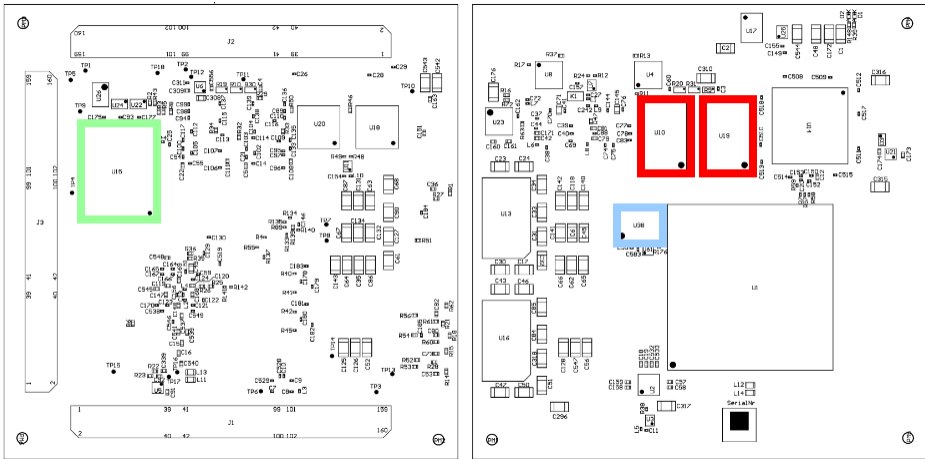
Type: BOM change
Reason: Part is NRND and EOL announced.
Impact: None. DC resistance decreased from 150mOhm to 130mOhm, rated current increased from 0.85A to 1A.

#5 TE0783-02-92I35HA only: Replaced Flash (U38)

Type: BOM change
Reason: Although IS25LP256D-JHLE is listed as 'Supported Flash Memory Devices for Zynq-7000 Device Configuration' in Xilinx UG908 (since version 2019.1), there are unsolved problems with reboot after petalinux was started. Therefore we change to a device which i known to work as expected.
Impact: Jedec Manufacturer ID is 01h, the device ID 0219h. Size does not change, 256 Mbit flash are available. All variants use now S25FL256SAGBH120

Method of Identification

Locate DDR3 RAM (U10, U19) and Flash (U38) on bottom and eMMC (U28) on top side of PCB:



old	new
IM4G16D3FABG-125I	IS43TR16256BL-125KBLI

MTFC4GACAJCN-4M IT	IS21ES08G-JCLI
	
IS25LP256D-JHLE	S25FL256SAGBH120
TE0783-02-92I35HA only	

Production Shipment Schedule

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

Contact Information

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

- forum.trenz-electronic.de
- wiki.trenz-electronic.de
- support@trenz-electronic.de (subject = PCN-20210227)
- 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.

