PCN-20190107 TE0803-02-*-* to TE0803-03-*-* Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20190107
Title	TE0803-02-* to TE0803-03-* Hardware Revision Change
Subject	BOM change
Issue Date	2019-06-05

Products Affected

This change affects Trenz Electronic TE0803-02 SoMs: TE0803-02-*

Affected Product	Changes	Replacement
TE0803-02-02CG-1EA	#1 - #6	TE0803-03-2AE11-A
TE0803-02-02EG-1EA	#1 - #6	TE0803-03-2BE11-A
TE0803-02-03CG-1EA	#1 - #6	TE0803-03-3AE11-A
TE0803-02-03EG-1EA	#1 - #6	TE0803-03-3BE11-A
TE0803-02-03-1EA-S	#1 - #6	TE0803-03-3BE11-AS
TE0803-02-04CG-1EA	#1 - #6	TE0803-03-4AE11-A
TE0803-02-04EG-1EA	#1 - #6	TE0803-03-4BE11-A
TE0803-02-04EG-1E3	#2 - #6	TE0803-03-4BE21-L
TE0803-02-04EG-1ID	#2 - #6	TE0803-03-4BI21-A
TE0803-02-04EV-1EA	#1 - #6	TE0803-03-4DE11-A
TE0803-02-04EV-1E3	#2 - #6	TE0803-03-4DE21-L
TE0803-02-05EV-1EA	#1 - #6	TE0803-03-5DE11-A
TE0803-02-05EV-1IA	#2 - #6	TE0803-03-5DI21-A

Changes

#1 Change DDR4 RAM from NT5AD256M16B2-GN to NT5AD256M16D4-HR

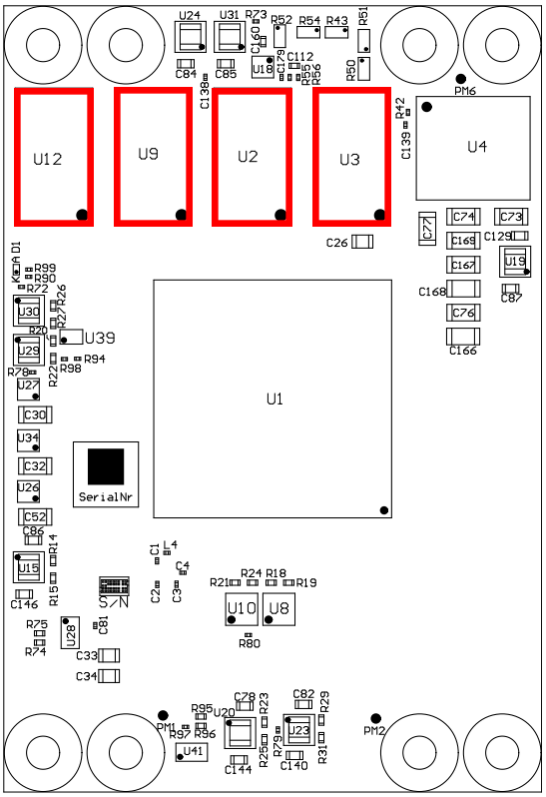
Type: BOM change

Reason: End of Life announced.

Impact: New DDR timings need to be considered in designs.

Method of Identification

Locate DDR4 RAM (U12, U9, U2, U3) on top side of PCB:



old	new
NT5AD256M16B2-GN	**NT5AD256M16D4-HR**
	

#2 Change SPI Flash from N25Q512A11G1240E to MT25QU512ABB8E12-0SIT

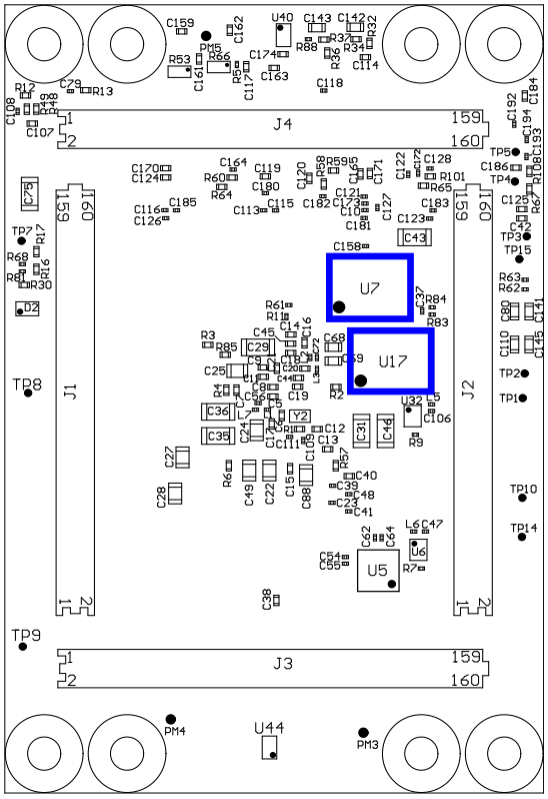
Type: BOM change

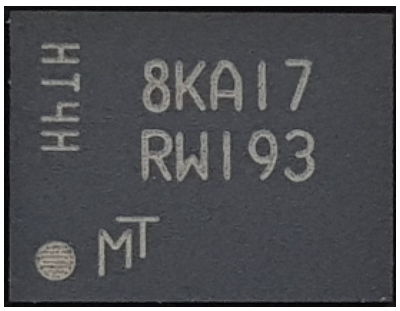
Reason: N25Q512A11G1240E became obsolete.

Impact: None. Both have same JEDEC ID BB20h and manufacturer ID 20h.

Method of Identification

Locate Flash (U7, U17) on bottom side of PCB:



old	new
N25Q512A11G1240E	**MT25QU512ABB8E12-0SIT**
	

#3 Added support of DDP DDR4

Type: PCB change

Reason: Request for larger RAM

Impact: Dual Die Package Chips supported

#4 Added support of low power FPGA (-L1/L2).

Type: PCB change

Reason: Request for power optimization

Impact: Low power FPGAs supported

#5 Revised testpoints

Type: PCB change

Reason: Prepare for automatic testing

Impact: Testpoint positions changed

#6 Revised J1-J4 connectors net label style

Type: Schematic change

Reason: Improve readability

Impact: None

Method of Identification

The model code and revision number (e.g. TE0803-02 or TE0803-03) are printed on the top side of the PCB.

Production Shipment Schedule

From Mai 2019, after old stock is gone. If the new revision is not suitable for your application and still the former revision of the board is needed, please contact us.

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-20190107)
- phone
    - national calls: 05223 65301-0
    - international calls: 0049 5223 65301-0

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.