PCN-20210615 TE0820-04 eMMC Change and Product Update

Download PDF version of this document.

Company	Trenz Electronic GmbH
PCN Number	PCN-20210615
Title	TE0820-04 eMMC Change and Product Update
Subject	BOM change
Issue Date	2021-07-22

Products Affected

This change affects all Trenz Electronic TE0820 SoMs of revision 04 with eMMC from manufacturer ISSI:

Affected Product	eMMC Capacity	Replacement
TE0820-04-2AE21FA	8GB	TE0820-04-2AE21MA
TE0820-04-2AI21FA	8GB	TE0820-04-2AI21MA
TE0820-04-2BE21FA	8GB	TE0820-04-2BE21MA
TE0820-04-2BE21FAJ	8GB	TE0820-04-2BE21MAJ
TE0820-04-2BE21FL	8GB	TE0820-04-2BE21ML
TE0820-04-2BE21-V1	8GB	TE0820-04-S002C1
TE0820-04-2BI21FA	8GB	TE0820-04-2BI21MA
TE0820-04-2BI21FL	8GB	TE0820-04-2BI21ML
TE0820-04-3AE21FA	8GB	TE0820-04-3AE21MA
TE0820-04-3BE21FA	8GB	TE0820-04-3BE21MA
TE0820-04-3BE21FL	8GB	TE0820-04-3BE21ML
TE0820-04-4AE21FA	8GB	TE0820-04-4AE21MA
TE0820-04-4AI21FI	8GB	TE0820-04-4AI21MI
TE0820-04-4BI21KL	64GB	TE0820-04-4BI21PL
TE0820-04-4DE21FA	8GB	TE0820-04-4DE21MA
TE0820-04-4DI21FA	8GB	TE0820-04-4DI21MA
TE0820-04-5DI21FA	8GB	TE0820-04-5DI21MA
TE0820-04-5DR21FA	8GB	TE0820-04-5DR21MA

Changes

#1 Change eMMC (U6) from IS21ES08G-JCLI / IS21ES64G-JCLI to SDINBDG4-8G-XI2 / SDINBDG4-64G-XI2

Type: BOM change
Reason: Distributor informed about unforeseeable immediate EOL of parts. No official documents form manufacturer are available. No LTB, already confirmed orders were cancelled by distributor/manufacturer.
Impact: None. Replacement has same capacity as used on corresponding affected variant. Reference designs for vivado versions 2019.2 and 2020.2 were tested and work properly without any changes.

#2 Clock Revision Change (U14) SiT8008AI-73-XXS-52.000000E to SiT8008BI-73-XXS-52.000000E

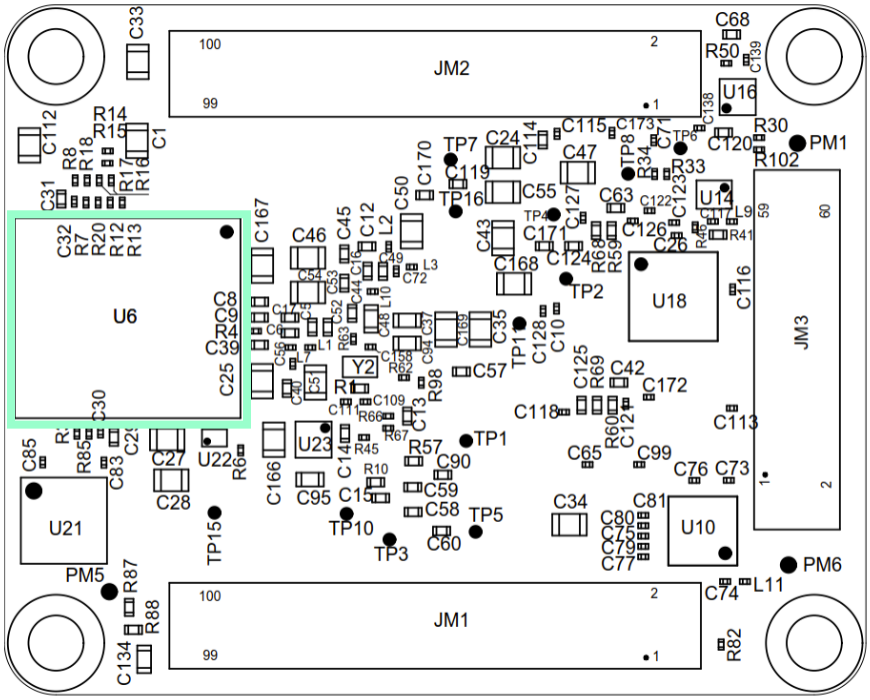
Type: BOM change
Reason: Switch to actual revision. Revision A devices may be discontinued.
Impact: None.

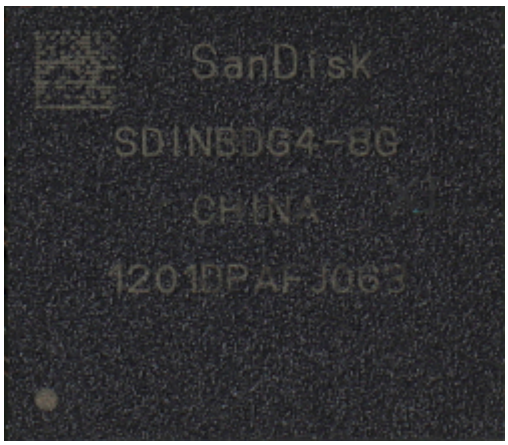
#3 Change Ferrite Beads (L1, L2, L3, L4, L5, L7, L9, L10, L11, L12) BKP0603HS121-T to MPZ0603S121HT000

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.

Method of Identification

Locate eMMC (U6) on bottom side of PCB:



old	new
IS21ES08G-JCLI or **IS21ES64G-JCLI**	**SDINBDG4-8G-XI2** or **SDINBDG4-64G-XI2**
	

Remark: 8GB versions are shown in figures above, chip marking of 64GB version looks accordingly.

Production Shipment Schedule

From mid of August 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
- wiki.trenz-electronic.de
- support%trenz-electronic.de (subject = PCN-20210615)
- 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.