Company	Trenz Electronic GmbH
PCN Number	PCN-20260226
Title	TE0820-05 DDR4 SDRAM and eMMC Change
Subject	BOM change
Issue Date	2026-09-03

Products Affected

This change affects all Trenz Electronic TE0820 SoMs: TE0820-05*.

Affected Product	Change	Intermediate Product	Change	Replacement
TE0820-05-2AE81MA	#1, #2	-	-	TE0820-05-2AE51QA
TE0820-05-2AI81MA	#1	TE0820-05-2AI51MA	#2	TE0820-05-2AI51QA
TE0820-05-2AI81MC	#1, #2	-	-	TE0820-05-2AI51QC
TE0820-05-2BE81MA	#1, #2	-	-	TE0820-05-2BE51QA
TE0820-05-2BE81ML	#1, #2	-	-	TE0820-05-2BE51QL
TE0820-05-2BI81MA	#1, #2	-	-	TE0820-05-2BI51QA
TE0820-05-2BI81ML	#1, #2	-	-	TE0820-05-2BI51QL
TE0820-05-3AE81MA	#1	TE0820-05-3AE51MA	#2	TE0820-05-3AE51QA
TE0820-05-3BE81MA	#1	TE0820-05-3BE51MA	#2	TE0820-05-3BE51QA
TE0820-05-3BE81ML	#1	TE0820-05-3BE51ML	#2	TE0820-05-3BE51QL
TE0820-05-3BE84MA	#1, #2	-	-	TE0820-05-3BE54QA

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Affected Product	Change	Intermediate Product	Change	Replacement
TE0820-05-3BI81ML	#1, #2	-	-	TE0820-05-3BI51QL
TE0820-05-4AE81MA	#1	TE0820-05-4AE51MA	#2	TE0820-05-4AE51QA
TE0820-05-4AI81MI	#1, #2	-	-	TE0820-05-4AI51QI
TE0820-05-4BE81MA	#1, #2	-	-	TE0820-05-4BE51QA
TE0820-05-4DE81MA	#1	TE0820-05-4DE51MA	#2	TE0820-05-4DE51QA
TE0820-05-4DE81MAS	#1, #2	-	-	TE0820-05-4DE51QAS
TE0820-05-4DI81MA	#1	TE0820-05-4DI51MA	#2	TE0820-05-4DI51QA
TE0820-05-5DI81MA	#1, #2	-	-	TE0820-05-5DI51QA

Changes

#1 Changed DDR4 SDRAM (U2, U3) from K4A8G165WC-BITDTCV to NT5AD512M16H4-JRI.

Type: BOM change

Reason: EOL of Component.

Impact: New DDR timings may be considered in designs. Timings used in Trenz reference design are due to following reasons still applicable without change: ZynqMP DDR4 Memory Setup.

#2 Changed eMMC (U6) from SDINBDG4-8G-XI2 to IS21EF08G-JCLI.

Type: BOM change

Reason: Supply chain improvement.

Impact: None. Replacement has same capacity as used on corresponding affected variant. Reference designs for Vivado were tested and work properly without any changes.

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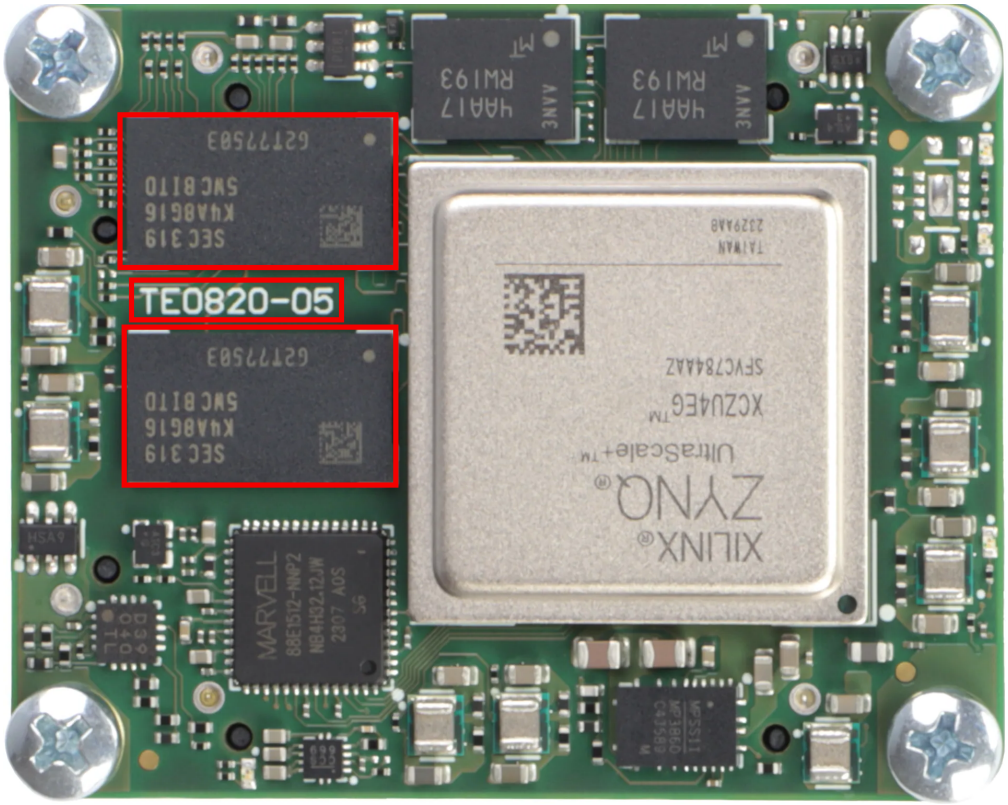
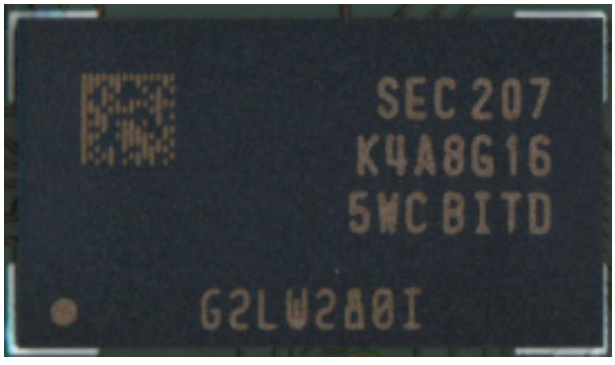
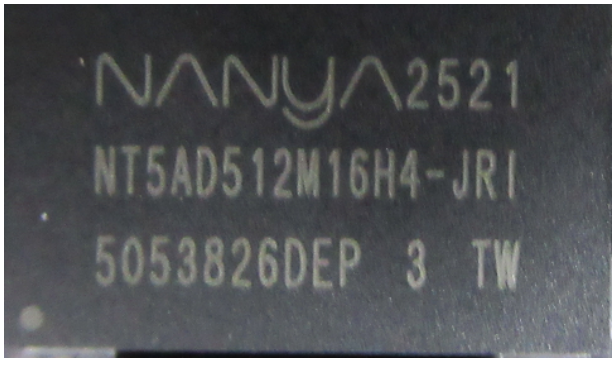
Method of Identification

Locate DDR4 SDRAM (U2, U3) on top side of TE0820-05 PCB:



old	new
K4A8G165WC-BITDTCV	NT5AD512M16H4-JRI
	

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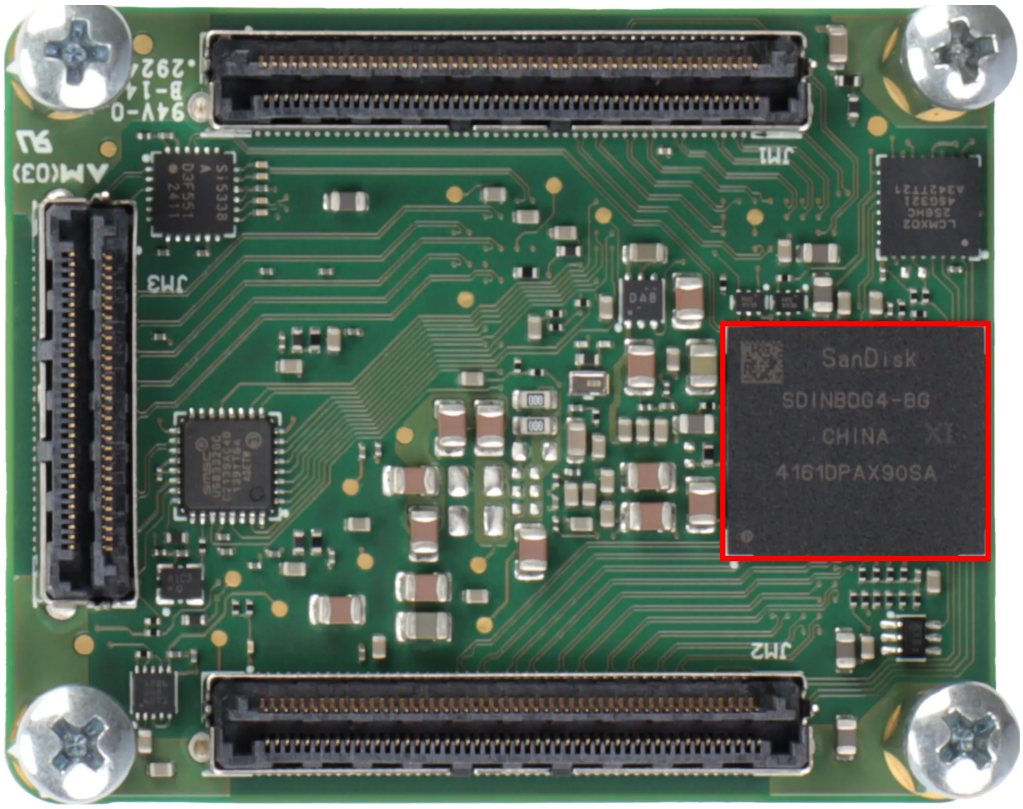
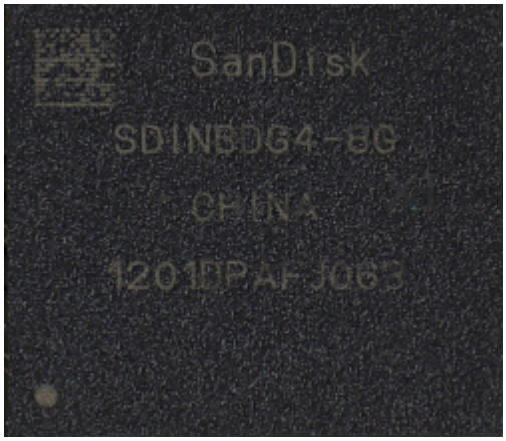
Locate eMMC (U6) on bottom side of TE0820-05 PCB:



old	new
SDINBDG4-8G-XI2	IS21EF08G-JCLI
	

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Production Shipment Schedule

This change takes place with immediate effect. If the new variants are not suitable for your application and still the former variants of the board are 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-20260226)
- phone
    - national calls: 05741 3200-0
    - international calls: 0049 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.

This PCN follows JEDEC Standard J-STD-046.

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