

Company	Trenz Electronic GmbH
PCN Number	PCN-20260203
Title	TE0955-01 to TE0955-02 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2026-02-10

1 Products Affected

This change affects all Trenz Electronic TE0955 SoMs of revision 01: TE0955-01*.

Affected Product	Replacement
TE0955-01-EGBE32-A	TE0955-02-EGBE32-A

2 Changes

2.1 #1 Changed ETH PHY U3 from LAN8830 to LAN8840 to support TSN/PTP.

Type: BOM change

Reason: Add new features. New PHY supports TSN/PTP.

Impact: New features are available. Trenz reference design works without change.

2.2 #2 Added OSPI assembly option (R121, R198, R199) to use MIO12 as dedicated reset instead of ECS# (default).

Type: Schematic Change

Reason: Add option to have dedicated reset pin for OSPI. Useful when FSBL leaves OSPI in a different state than e.g. Linux expects.

Impact: PMC_MIO pin 12 is now default connected via R199 as dedicated OSPI reset (with pull-up resistor R166)

2.3 #3 Added TPM (Trusted Platform Module) U37 with corresponding circuits.

Type: Schematic Change

Reason: Add new feature.

Impact: TPM 2.0 features available.

2.4 #4 Changed U14 from SLS32AIA010MLUSON10XTMA2 to SLS32AIA010MLUSON10XTMC1.

Type: BOM Change

Reason: Use chip with newest available firmware version.

Impact: None, features should be backwards compatible.

2.5 #5 Added note that U14, U15 will be removed in future.

Type: Documentation Change

Reason: Remove duplicate features in next revision, cost optimisation.

Impact: U14 and U15 will be no more available in future. Use TPM instead, see #3.

2.6 #6 Set R156 to assembled and connected to GTYP_AVCC_AUX rail instead of 1V8 rail. Removed patch including R156_NEW.

Type: Schematic Change

Reason: Resolve patch from REV01.

Impact: None.

2.7 #7 Corrected and updated silkscreen description of Connectors JM5 and JM6 to show also Andromeda connector naming W and X. Removed corresponding schematic notes.

Type: PCB Change (Silkscreen)

Reason: Unify connector naming across compatible platforms.

Impact: None.

2.8 #8 Moved serial sticker from bottom to top. Now placed on Ethernet PHY U3.

Type: PCB change

Reason: Improve production handling.

Impact: None, serial readable from TOP side of module.

2.9 #9 Removed unnecessary zero Ohm R159.

Type: Schematic Change

Reason: Optimisation.

Impact: None.

2.10 #10 Replaced 0402 resistor R157 by 0201 size version.

Type: PCB change

Reason: BOM optimisation.

Impact: None.

2.11 #11 Moved C52 and C74 away from PCB edge/tab.

Type: PCB change

Reason: Production yield optimisation.

Impact: None.

2.12 #12 Moved R14, R16, R19, R60, R64, R79, C19, C52, C186, C194, C196, C203, L11.

Type: PCB change

Reason: Make more space for clamp holder of Trenz ATS (Automatic Test System).

Impact: None.

2.13 #13 Replaced buffers U7, U10, U16, U25 from 74LVC2G07FZ4-7 to SN74LVC2G07DSF2

Type: Schematic Change

Reason: Old buffer was out of datasheet specification when VCC=1.8V and output pulled to a higher voltage. Due to BOM optimisation all similar buffers changed.

Impact: None.

2.14 #14 Added option for additional pull-ups (not fitted: R196, R197) on OM_I2C bus

Type: Schematic Change

Reason: Add assembly option if level shifter internal pull-ups are too weak.

Impact: None.

2.15 #15 Moved test points: TP7, TP9, TP13, TP16, TP20, TP21, TP27

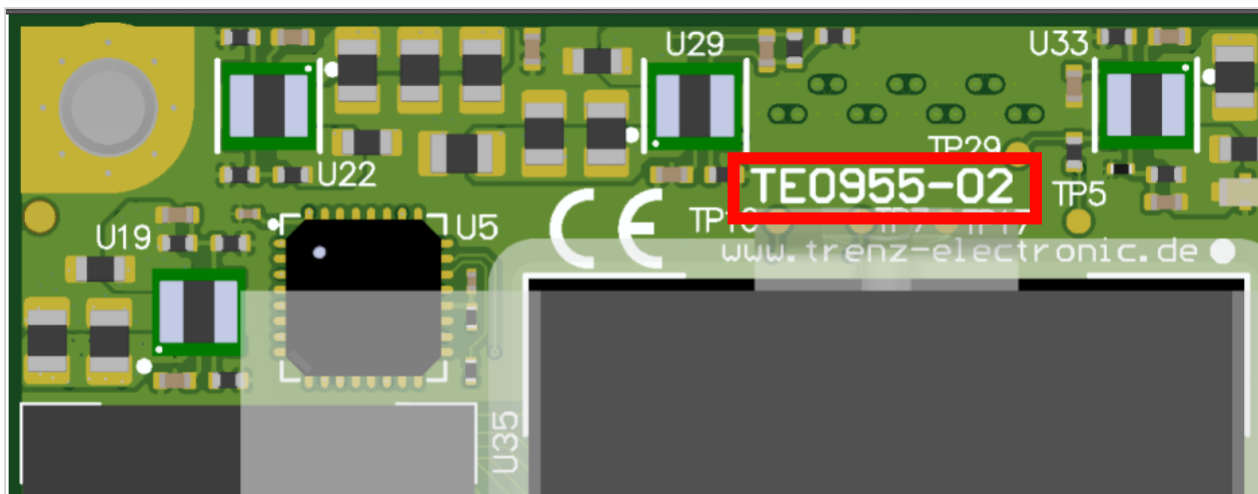
Type: PCB Change

Reason: Result from other changes above.

Impact: Test points have different location on board.

3 Method of Identification

Revision number is printed on the top silkscreen of the module.



4 Production Shipment Schedule

From end of July 2026, 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.

5 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-20260203)
- phone
 - national calls: 05741 3200-0
 - international calls: 0049 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.

This PCN follows JEDEC Standard J-STD-046.