PCN-20220718 AM0010-01 to AM0010-02 Hardware Revision Change

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Company	Trenz Electronic GmbH
PCN Number	PCN-20220718
Title	AM0010-01 to AM0010-02 Hardware Revision Change
Subject	Hardware Revision Change
Issue Date	2022-07-22

Products Affected

This change affects all Trenz Electronic AM0010 SoMs: AM0010-01*.

Affected Product	Replacement
AM0010-01-2AE21MA	AM0010-02-2AE21MA
AM0010-01-3BE21MA	AM0010-02-3BE21MA
AM0010-01-3BI21MA	AM0010-02-3BI21MA
AM0010-01-4AE21MA	AM0010-02-4AE21MA
AM0010-01-4BE21MA	AM0010-02-4BE21MA
AM0010-01-4DE21MA	AM0010-02-4DE21MA

Changes

#1 Added support for speedgrade -3.

Type: Schematic Change

Reason: Product Improvement

Impact: None, assembly options with additional DCDC for speedgrade -3 devices possible.

#2 Changed TPS54A24RTWR to MPQ8633BGLE-Z for U18.

Type: Schematic Change

Reason: BOM Optimization

Impact: None. Minor changes in electrical characteristics, e.g. changed switching frequency, maximum current capability is slightly increased.

#3 BOM Optimization for components (R32, R68, R69, R72, R74, R76, R73, R45, R20, C98, C234, C235, C99, C97, C129, C236, R120, C237, C95, C96, C223, C224, C233, L11, L12, L13).

Type: Schematic Change

Reason: BOM Optimization.

Impact: None.

#4 Changed pin connection for U16 pins B5 and C5.

Type: Schematic Change

Reason: Connect pins B5 and C5 according to the datasheet/recommendation.

Impact: None.

#5 Added pull-up/-down resistor option (R121, ... R128) for signals MODE0...3.

Type: Schematic Change

Reason: Pull-up/-down option for signals MODE0...3.

Impact: None.

#6 Added UKCA logo.

Type: PCB Change

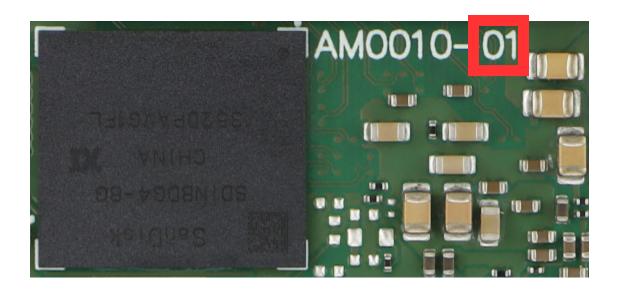**Reason:** Requiered for export to UK.

Impact: None.

#7 Changed USB PHY from USB3340 to USB3320 for U10 as default option.

Type: BOM Change

Reason: USB PHY usage improvement.

Impact: None.

#8 Updated Schematic Information.

Type: Documentation Change

Reason: Documentation in schematic has to reflect points above.

Impact: None.

Method of Identification

Production Shipment Schedule

From February 2023, 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-20220718)
- 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.