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1 Abstract

Schmid Elektronik AG has released revision V1.3 of the ZSOM-Mini. The change that is relevant to applications concerns the USB Type-C connector and is described below. All other changes are of a production or mechanical nature and have no effect on the use of the module. Form, fit and function of the ZSOM-Mini V1.3 remain fully compatible with V1.2. The ZSOM-Mini V1.3 is available from Q2 2024; the V1.2 is no longer manufactured after the changeover.

2 Affected Circuitry parts

2.1 USB Type-C Connector

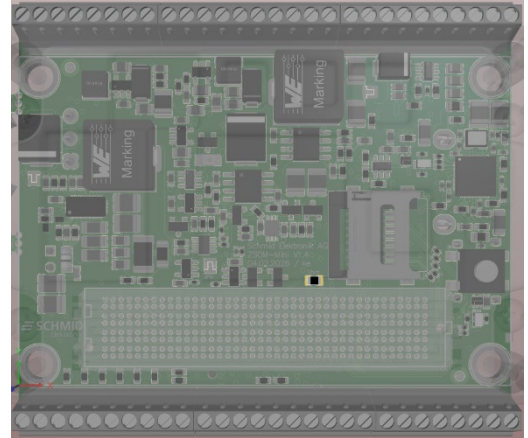
On the ZSOM-Mini V1.2 the Configuration Channel pins (CC1, CC2) of the USB Type-C connector were left unconnected. Because of this the USB device port was only enumerated when a USB-A-to-USB-C cable was used. With a USB-C-to-USB-C cable connected to a USB Type-C host the port was not detected and no communication was possible.

On the ZSOM-Mini V1.3 the two 5.1 k Ω CC pull-down resistors required by the USB Type-C specification (R187, R188) have been added. The USB device port is now enumerated correctly with both USB-A-to-USB-C and USB-C-to-USB-C cables. No change to firmware or application software is required.

3 Further Changes

The following changes have no influence on the electrical behaviour or the operation of the ZSOM-Mini and require no action by the user:

- Connectors J7 and J8 (2x3 header, 1.27 mm pitch): changed to an alternative manufacturer part (FCI 20021121-00006C4LF instead of Würth 621 306 210 21) to improve availability. Pitch, pin assignment and mating connector are unchanged.
- R159 (0 Ω solder-bridge position that connects the backup battery to the sbRIO-9651): the footprint has been enlarged from 0603 to 0805 to and moved to another position to improve solderability.



4 Document Revisions

Date		Revision
27.03.2024	ba	First Version

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