Design Note TE0820-03 with Video Codec - EV

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Company	Trenz Electronic GmbH
DN Number	DN-20200904
Title	Design Note TE0820-03 with Video Codec (EV)
Subject	Video Codec Power Supply
Issue Date	2020-09-09

Products Affected

This Design Note affects SoM TE0820 revision 03 with Video Codec (EV):

Product	Serial Numbers[1]
TE0820-03-04EV-1EA	all up to 547797
TE0820-03-4DE21FA	all up to 646600, and 646602, 646603, 646605, 646607, 646608, 646609, 646612, 646613, 646614, 646615, 646616, 646618, 646620, 646621, 646622, 646623, 646625, 646626, 646627, 646629, 646630, 646632, 646634, 646636, 646637, 646638, 646640, 646641, 646642, and 646644 to 646658
TE0820-03-4DI21FA	all up to 623789
TE0820-03-5DI21FA	all up to 652615, and 652619
TE0820-03-5DR21FA	all up to 641770

[1] all mentioned serial numbers are understood as "included" and are therefore affected.

Description

The internal supply voltage for the video codec unit (VCU) is set via Resistors R38 and R39. For the above mentioned affected SoMs R38 is set to 40.2 kOhm resulting in a PL_VCU voltage of 1.0V. This is above the recommended operation specification.
Up to the issue date of this design note no adverse effects have been reported. For all serial numbers not mentioned under affected products R38 is 20 kOhm resulting in xilinx recommended 0.9V internal VCU voltage.

If your product is affected and revision is required please contact sales%trenz-electronic.de (subject = DN-20200904) for further instructions.

Contact Information

If you have any questions related to this Design Note, please contact Trenz Electronics Technical Support at

- forum.trenz-electronic.de
- wiki.trenz-electronic.de
- support%trenz-electronic.de (subject = DN-20200904)
- phone

    - national calls: 05741 3200-0
    - international calls: 0049 5741 3200-0

Disclaimer

Any statment in this DN is based on the most current product information at the time this DN is being issued. For any further information, please contact your local Trenz Electronic sales office, technical support.