Design Note TE0724-04 QSPI Flash

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Company	Trenz Electronic GmbH
DN Number	DN-20210319
Title	Design Note TE0724-04 QSPI Flash
Subject	QSPI Flash support
Issue Date	2021-03-23

Products Affected

This Design Note affects SoM TE0724 revision 04 with 512Mbit ISSI Flash:

Product
TE0724-04-41I33-A
TE0724-04-61I33-A

Description

Affected products are equipped with ISSI 512Mbit flash (IS25LP512M-RHLE). This flash is listed as 'Supported Flash Memory Devices for Zynq-7000 Device Configuration' in Xilinx UG908 (since version 2019.1), but there are unsolved problems with reboot after petalinux was started. We have not encountered any problems in bare metal applications. Furthermore it has been demonstrated that the flash works with modified Linux Kernel at least in petalinux 2018.2, but up to the release of this design note there is no official patch for any petalinux version.

Therefore we recommed to use modules with 256Mbit Spansion flash S25FL256SAGBHI20 as listed below. With exception of the flash, the modules are identical. Furthermore the Spansion flash is the same as on revision 03 of TE0724.

Product with affected Flash	Recommended replacement (Flash: Spansion)
TE0724-04-41I33-A	TE0724-04-41I32-A
TE0724-04-61I33-A	TE0724-04-61I32-A

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-20210319)
- phone
    - national calls: 05741 3200-0
    - international calls: 0049 5741 3200-0

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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.