



Customer Information Notification

202005006I

Issue Date: 13-Aug-2020
Effective Date: 14-Aug-2020



Management Summary

There is a issue in SW L4.19 release. We should notice customers to use correct version and avoid issue.

Change Category

- | | | | | |
|--|--|--|---|---|
| <input type="checkbox"/> Wafer Fab Process | <input type="checkbox"/> Assembly Process | <input type="checkbox"/> Product Marking | <input type="checkbox"/> Test Location | <input type="checkbox"/> Design |
| <input type="checkbox"/> Wafer Fab Materials | <input type="checkbox"/> Assembly Materials | <input type="checkbox"/> Mechanical Specification | <input type="checkbox"/> Test Process | <input type="checkbox"/> Errata |
| <input type="checkbox"/> Wafer Fab Location | <input type="checkbox"/> Assembly Location | <input type="checkbox"/> Packing/Shipping/Labeling | <input type="checkbox"/> Test Equipment | <input type="checkbox"/> Electrical spec./Test coverage |
| <input type="checkbox"/> Firmware | <input checked="" type="checkbox"/> Other - Software | | | |

Wrong Voltage Setting and Risk Burning 845/815 on 4.19.xx and 5.4.xx Linux and Android Pre-build Demo Image

Description

LDO1/2 voltage of rohm,bd71847 are set wrong on L4.19 after kernel bootup :
LDO1@3.0V --NVCC_SNVS_1V8
LDO2@0.9V ----VDD_SNVS_0V8

With the below kernel print log:

[0.931167] ldo1: Bringing 1800000uV into 3000000-3000000uV
[0.938256] ldo2: Bringing 800000uV into 900000-900000uV

The issue is impacting 8MMINILPD4-EVK, MX8MMINID4-EVK and MX8MNANOD4-EVK boards. The wrong voltage is violating the spec and might damage IOs.

The related SW release were set invalid in website after May. 28th
Suggesting customer use latest SW release or apply proper patches for these boards.
Since there are different bd71847 drivers/dts used on L4.14/L4.19/L5.4, there are

different patches for this issue, please apply the correct patch on the right release branch:

1). imx_4.14.98_2.3.0:

0001-MLK-23275-1-ARM64-dts-freescale-fsl-imx8mm-evk-corre.patch

0002-MLK-23275-2-ARM64-dts-freescale-fsl-imx8mn-ddr4-evk-.patch

0003-MLK-23275-3-regulator-bd71837-correct-ldo1-ldo2-group.patch

2). imx_4.19.35_1.1.0:

0001-MLK-23275-1-ARM64-dts-freescale-fsl-imx8mm-evk-corre.patch

0002-MLK-23275-2-ARM64-dts-freescale-fsl-imx8mn-ddr4-evk-.patch

0003-MLK-23846-ARM64-dts-freescale-fsl-imx8mn-ddr4-evk-co.patch

3). imx_5.4.3_2.0.0:

0001-MLK-23275-1-ARM64-dts-freescale-fsl-imx8mm-evk-corre.patch

0002-MLK-23275-2-ARM64-dts-freescale-imx8mn-ddr4-evk-corr.patch

0003-MLK-23844-1-ARM64-dts-freescale-imx8mn-ddr4-evk-clea.patch

0004-MLK-23844-2-ARM64-dts-freescale-imx8mm-correct-VDDAR.patch

Reason

Notice customers not using wrong SW version or download the correct SW version.

Identification of Affected Products

it is SW error, and No impact to Soc.

Anticipated Impact on Form, Fit, Function, Reliability or Quality

No impact on form, fit, function, reliability or quality.

Data Sheet Revision

No impact to existing datasheet

Contact and Support

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For all Quality Notification content inquiries, please contact your local NXP Sales Support team.

For specific questions on this notice or the products affected please contact our specialist directly:

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