



## Customer Information Notification

202005006I

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

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# QUALITY

### 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-grou.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**

For all inquiries regarding the ePCN tool application or access issues, please contact NXP "Global Quality Support Team".

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

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#### **Affected Part Numbers**

8MMINILPD4-EVK

8MNANOD4-EVK

8MMINID4-EVK