Customer Information Notification

202005006I

Issue Date: 13-Aug-2020
Effective Date: 14-Aug-2020
Dear *Gordon Love*,

Here's your personalized quality information concerning products Premier Farnell PLC purchased from NXP.
For detailed information we invite you to view this notification online

This notice is NXP Company Proprietary.

Management Summary

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

Change Category

[ ] Wafer Fab Process	[ ] Assembly Process	[ ] Product Marking	[ ] Test Location	[ ] Design
[ ] Wafer Fab Materials	[ ] Assembly Materials	[ ] Mechanical Specification	[ ]Test Process	[ ] Errata
[ ] Wafer Fab Location	[ ] Assembly Location	[ ] Packing/Shipping/Labeling	[ ] Test Equipment	[ ] Electrical spec./Test coverage
[ ] Firmware	[X] 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 vialating 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 appy 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

Additional information

Affected products and sales history information: see attached file

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.

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

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At NXP Semiconductors we are constantly striving to improve our product and processes to ensure they reach the highest possible Quality Standards.
Customer Focus, Passion to Win.

NXP Quality Management Team.

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