



PRODUCT BULLETIN

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ISSUE DATE: 27-Jun-2016
NOTIFICATION: 17175
TITLE: H/W Spec Update for Power Sequencing when Using Trust Architecture Battery Backed for T4x, T2x, LS1020A & LS1043A Devices
EFFECTIVE DATE: 28-Jun-2016

DEVICE(S)

MPN
66T2080NSE8B
LS1020ASE7HNB
LS1020ASE7KQB
LS1020ASN7HNB
LS1020ASN7KQB
LS1020AXE7HNB
LS1020AXE7KQB
LS1020AXN7HNB
LS1020AXN7KQB
LS1021ASE7HNB
LS1021ASE7KQB
LS1021ASN7HNB
LS1021ASN7KQB
LS1021AXE7HNB
LS1021AXE7KQB
LS1021AXN7HNB
LS1021AXN7KQB
LS1022ASE7EKB
LS1022ASN7EKB
LS1022AXE7EKB
LS1022AXN7EKB
LS1023ASE7KNLA
LS1023ASE7KQA
LS1023ASE7MNLA

LS1023ASE7MQA
LS1023ASE7PQA
LS1023ASE7QQA
LS1023ASE8KNLA
LS1023ASE8KQA
LS1023ASE8MNLA
LS1023ASE8MQA
LS1023ASE8PQA
LS1023ASE8QQA
LS1023ASN7KNLA
LS1023ASN7KQA
LS1023ASN7MNLA
LS1023ASN7MQA
LS1023ASN7PQA
LS1023ASN7QQA
LS1023ASN8KNLA
LS1023ASN8KQA
LS1023ASN8MNLA
LS1023ASN8MQA
LS1023ASN8PQA
LS1023ASN8QQA
LS1023AXE7KQA
LS1023AXE7MQA
LS1023AXE7PQA
LS1023AXE7QQA
LS1023AXE8KQA
LS1023AXE8MQA
LS1023AXE8PQA
LS1023AXE8QQA
LS1023AXN7KQA
LS1023AXN7MQA
LS1023AXN7PQA
LS1023AXN7QQA
LS1023AXN8KQA
LS1023AXN8MQA
LS1023AXN8PQA
LS1023AXN8QQA
LS1043ASE7KNLA

LS1043ASE7KQA
LS1043ASE7MNLA
LS1043ASE7MQA
LS1043ASE7PQA
LS1043ASE7QQA
LS1043ASE8KNLA
LS1043ASE8KQA
LS1043ASE8MNLA
LS1043ASE8MQA
LS1043ASE8PQA
LS1043ASE8QQA
LS1043ASN7KNLA
LS1043ASN7KQA
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LS1043ASN8PQA
LS1043ASN8QQA
LS1043AXE7KQA
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LS1043AXN7PQA
LS1043AXN7QQA
LS1043AXN8KQA
LS1043AXN8MQA
LS1043AXN8PQA

LS1043AXN8QQA
PLS1023ASE8MQA
PLS1043ASE8MQA
PS1020ASE7HNB
PS1020ASE7KQB
PS1020ASN7HNB
PS1020ASN7KQB
PS1020AXE7KQB
PS1020AXN7KQB
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PS1021ASE7KQB
PS1021ASN7HNB
PS1021ASN7KQB
PS1021AXE7KQB
PS1021AXN7KQB
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PS1022ASN7EKB
PS1022AXN7EKB
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T2080NSE8PTB
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T2080NSN8PTB
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T2080NXE8PTB
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T2081NSN8TTB
T2081NXE8MQB
T2081NXE8PTB
T2081NXE8T1B
T2081NXE8TTB
T2081NXN8MQB
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T4241NSN7TTB
T4241NXE7PQB
T4241NXE7QTB
T4241NXE7TTB
T4241NXN7PQB
T4241NXN7QTB
T4241NXN7TTB

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AFFECTED CHANGE CATEGORIES

- DATASHEET

DESCRIPTION OF CHANGE

The following change impacts T4240/4160, T2080/2081, LS1020/21/22A and LS1043/23A family of devices.

Section 3.2 of the Power Sequencing of the H/W spec is going to be updated to add the following change:

If using Trust Architecture Security Monitor battery backed features, prior to VDD ramping up to the 0.5V level, ensure that OVDD is ramped to recommended operational voltage and SYSCLK or DIFF_SYSCLK/DIFF_SYSCLK_B is running. These clock should have a minimum frequency of 800Hz and a maximum frequency no greater than the supported system clock frequency for the device.

Also, the value of the supplies that must be stable will change from 75ms to 400ms.

REASON FOR CHANGE

Notify customers of power sequencing change when using Trust Architecture Security Monitor battery backed features.

ANTICIPATED IMPACT OF PRODUCT CHANGE(FORM, FIT, FUNCTION, OR RELIABILITY)

No impact to product form, fit, function or reliability.

NOTE:

THE CHANGE(S) SPECIFIED IN THIS NOTIFICATION WILL BE IMPLEMENTED ON THE EFFECTIVE DATE LISTED ABOVE. To request further data or inquire about the notification, please enter a [Support Case](#). Be aware that after you select this link to enter your request, you must choose the topic "Product Change Notification" once on the Salesforce page.

For sample inquiries - please go to www.nxp.com

QUALIFICATION STATUS: N/A

QUALIFICATION PLAN:

N/A

RELIABILITY DATA SUMMARY:

N/A

ELECTRICAL CHARACTERISTIC SUMMARY:

N/A

CHANGED PART IDENTIFICATION:

N/A

ATTACHMENT(S):

External attachment(s) FOR this notification can be viewed AT:
[17175_PB_17175_HW_Spec_Change.pdf](#)
