

Informational Notice (IN)

Notice no.: IN-126, rev. 1.0		Date: 2020-02-20
Device affected:		Device version / Build Code:
nRF52840-QIAA nRF52840-CKAA		D00 D00
Data sheet references: N/A	Agreement reference: N/A	Customers reference: N/A

Description of changes:		
<ol style="list-style-type: none"> 1) Increase the pull-down strength of a digital signal to the reset monitor 2) Improved regulation feedback control of REG0 reducing inrush current during startup <p>The new version is drop-in compatible with current version.</p>		
Impact: Does the change affect product:		
1. Form	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes – describe:
2. Fit	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes – describe:
3. Function	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes – describe:
4. Quality or Reliability	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes – describe:
Classification of change	<input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Major

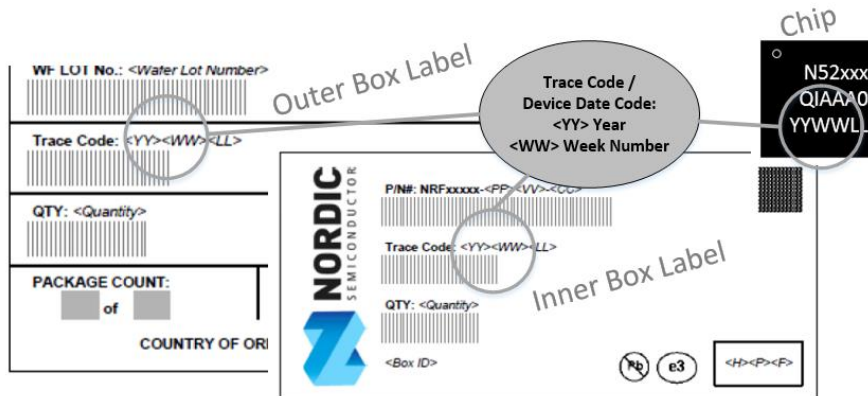
Reasons for changes:
<ol style="list-style-type: none"> 1) Affected devices have been found to have a possibility of going through an unintended reset when entering System ON IDLE state at supply voltage (VDD) above 2.8V while also operated at temperatures below 0 degrees Celsius. The probability of such instances of reset behavior has been observed to be between 1 in 300 000 (at -40 degrees Celsius) and 1 in 20 000 000 (at 0 degrees Celsius), i.e. relative to the number of transitions to the System ON IDLE state. Devices that experienced reset resumed normal function after reset. The change ensures that the described reset behavior is no longer observable. The described behavior has not been observed at supply voltages below 2.8V or at temperatures above 0 degrees Celsius. 2) The change increases robustness: <ol style="list-style-type: none"> a. to high transient voltage and current on VDDH supply pin during USB insertion b. to shorts of VDD to ground

Consequences of change:
Hardware
The new device version is drop-in compatible with the current version.
Software:
The new device version is software compatible with the current version.
Teleregulatory and Bluetooth certification
<ul style="list-style-type: none"> ▪ The new revision has no impact on RF performance ▪ The new revision inherits all Bluetooth QDIDs and requires no re-qualification for existing products

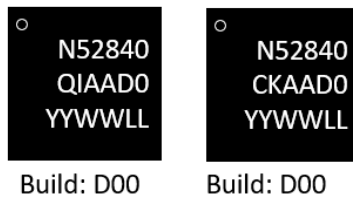
Verification:
New device version has been approved and qualified under standard Nordic Semiconductor ASA QA procedures.

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Marking/Shipping labels:



Chips:



Labels:



Change active from (date):

Existing stock to be depleted, no earlier than June 2020

Change active from (date code - YYWW):

TBD

Last time order:

<N/A>

Final shipment date:

<N/A>

Note:

This change will not affect build codes. Production devices with the change incorporated will be available at the indicated production dates and be identifiable by Trace / Date Code.

Attachments:

No Yes

Technical contact at Nordic Semiconductor:

www.nordicsemi.com, "Support"

Commercial contact at Nordic Semiconductor:

www.nordicsemi.no, "Contact Us"

Authorization for Nordic Semiconductor

Product Manager: Kjetil Holstad

Date: 2020-02-20

Sign:



Quality Director: Ebbe Rømcke

Date: 2020-02-20

Sign:



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