

PCN no.: **PCN-161 rev 1.0**

 Date: **2021-09-15**

 Device affected: **nRF21540-QDAA**

 Device version/Build Code: **F00**

 Data sheet references:
N/A

 Agreement reference:
N/A

 Customer's reference:
N/A
Description of change:

New silicon, build code G00, fixing the following Errata:

- PAN 4 – Low PA or LNA gain.

Updated Product Specification (v1.1.1):

- Updated reference circuitry with improved RF matching network.
- I_{PG} changed from 0.7 mA to 1.1 mA.

Impact: Does the change affect product:

- | | | |
|---------------------------|--|--|
| 1. Form | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes – describe: |
| 2. Fit | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes – describe: Reference circuitry is changed. |
| 3. Function | <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes – describe: I _{PG} increased from 0.7 mA to 1.1 mA. |
| 4. Quality or Reliability | <input checked="" type="checkbox"/> No | <input type="checkbox"/> Yes – describe: |

Reason for change:

Ensure correct start-up of the PA and LNA (fix PAN 4).

Reduce RF 2nd and 3rd harmonics in TX with the new RF matching network.

Consequences of change:

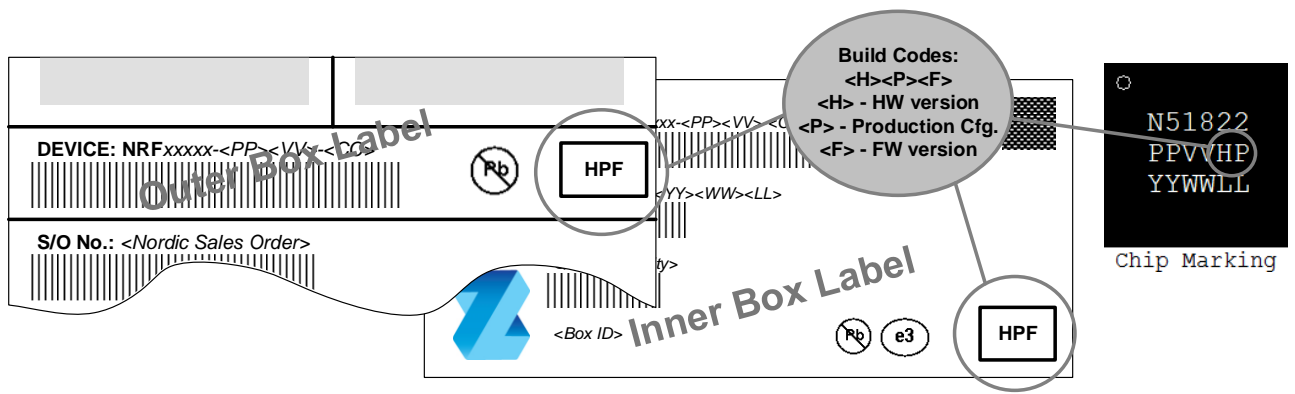
Program state is an intermediate state only active for a few microseconds when using RX and/or TX. As a consequence of the PAN 4 fix, the current consumption in Program state is increased from 0.7 mA to 1.1 mA.

The new RF matching network requires 4 matching components. The old RF matching network only needed 2 matching components.

Verification of change:

The new revision was qualified according to Nordic Semiconductor's standard product approval and quality procedures.

Marking/Shipping labels:



Chips:

N21540
QDAAG0
YYWWLL

Build: G00

Labels:

G00

Change active from (date):

2021-09-15

Change active from (lot no/date code/build code):

Build code – nRF21540-QDAA G00

Samples Available (date/build code):

2021-09-15 / G00

Attachments: No Yes – describe:

Technical contact at Nordic Semiconductor:

www.nordicsemi.com, "Support"

Authorization for Nordic Semiconductor

Commercial contact at Nordic Semiconductor:

www.nordicsemi.com, "Contact Us"

Product Manager: Pär Håkansson

Date: 2021-09-15

Sign:



Quality Director: Ebbe Rømcke

Date: 2021-09-15

Sign:



Please note that all last time buy orders are non-cancellable and non-returnable.

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