



PCN no.: **IN-194 rev. 1.0**

Date: **2023-12-11**

Device affected: **All nRF7000, nRF7001 and nRF7002 variants**

Device version / Build Code: **All active build codes**

Data sheet references:
nRF7000 Product Specification 1.1
nRF7001 Product Specification 1.0
nRF7002 Product Specification 1.1

Agreement reference:
N/A

Customers reference:
N/A

Description of change:

Adjustment of device maximum transmit power:

Symbol	Parameter	Nominal		Units
		From	To	
P _{TXMAX,2.4GHz,DSSS/CCK}	Maximum transmit power 2.4 GHz (DSSS/CCK)	21	20	dBm
P _{TXMAX,2.4GHz,MCS0}	Maximum transmit power 2.4 GHz (6 Mbps/HT-MCS0/HE-MCS0)	16	15	dBm
P _{TXMAX,2.4GHz,MCS7}	Maximum transmit power 2.4 GHz (54 Mbps/HT-MCS7/HE-MCS7)	16	15	dBm
P _{TXMAX,5GHz,MCS0}	Maximum transmit power 5 GHz (6 Mbps/HT-MCS0/VHT-MCS0/HE-MCS0)	14	13	dBm
P _{TXMAX,5GHz,MCS7}	Maximum transmit power 5 GHz (54 Mbps/HT-MCS7/VHT-MCS7/HE-MCS7)	14	13	dBm

These updates are fully documented in the nRF7000 product specification 1.1, nRF7001 product specification 1.0, and nRF7002 product specification 1.1, which provides comprehensive details on all new registers and parameter changes.

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 type="checkbox"/> No | <input checked="" type="checkbox"/> Yes – describe: maximum transmit power updated |
| 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 |

Reason for change:

To improve margin for spectrum emission mask and Error Vector Magnitude (EVM).

Consequences of change:

- Lower output power from the device
- Increased margin for spectrum emission mask
- Increase margin to EVM

Verification of change:

The changes have been qualified according to Nordic Semiconductor's standard quality procedures.

Marking/Shipping labels:

No impact to marking and shipping labels

Change active from (date):

2023-10-25

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

nRF Connect SDK 2.5 or later

Technical contact at Nordic Semiconductor:

www.nordicsemi.com, "Support"

Commercial contact at Nordic Semiconductor:

www.nordicsemi.com, "Contact Us"



Authorization for Nordic Semiconductor

EVP Product Management

Kjetil Holstad

Date: 2023-12-11

Sign:

SVP Quality

Ola Boström

Date: 2023-11-11

Sign:

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

Nordic Semiconductor ASA

P.O. Box 2336

7004 Trondheim

Norway

Tel.: +47 72 89 89 00