



Product / Process Change Notification (PCN)

- Major Change
 Minor Change

PCN Number: PCN_WIRL-BTLE_CUS2_20250124
Affected Series: WIRL-CUS2, WIRL-NFW2, WIRL-EVAL
Affected Order Codes: See "Details of Change" section.
PCN Date: 2024-10-24 (YYYY-MM-DD)
Effective Date: 2025-01-24 (YYYY-MM-DD)

- Change Category:**
- Equipment/Location
 - General Data
 - Material
 - Process
 - Product Design
 - Shipping/Packaging
 - Supplier
 - Software

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- Datasheet Change:**
- Yes No
- Attachment:**
- Yes No

Description of Change:

In order to enhance the product functions, Würth Elektronik eiSos will use the latest revision of the SoC (System on Chip) - nRF52840 provided by Nordic Semiconductor.

There will be no change in form, fit, quality or reliability of the Würth Elektronik eiSos product.

Refer to the "Details of change" section for more information on the changes in the SoC.

In case of freeze of the HW version, contact your local salesperson or our support team at wcs@we-online.com.

The new revision of the affected order codes will be sent out after the previous revision is out of stock (according to FIFO - first-in, first-out).



Details of Change:

Affected Part Numbers	Hardware version before PCN	Hardware version after PCN	Lot Number before PCN	Lot Number after PCN
2611011021090	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611011022000	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611011024080	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611011024100	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611011024110	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611011024130	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX
2611149022001	1.4	1.5	XXX XX014XXXXXXXX	XXX XX015XXXXXXXX

As mentioned by Nordic Semiconductors in no: IN-141 rev 1.1, following are the changes improving the functions of the product:

Changes to the access port protection:

Informational Notice 133 (IN-133) identifies a fault injection technique that may cause failure of the access port protection mechanisms on the nRF52 series. The introduced changes to revision 3 seek to mitigate this known fault injection technique.

Added filter coefficients for pulse shaping of the transmitted signal:

The filter has been added to improve margins with respect to section TP/154/PHY24/TRANSMIT-05 of the ZigBee IEEE 802.15.4 Test Specification when using the nRF52840 in a system with the nRF21540 (or other power amplifiers) with high output power (above 14 dBm).

Improved wideband blocking:

The update improves the wideband blocking performance margins with respect to the ETSI EMC immunity requirement. It also improves reception in noisy environments. This improvement is particularly important when using an external LNA.

Additional Note from Nordic:

Tele regulatory and Bluetooth certification:

The new revision has no impact on ETSI, FCC or Bluetooth certifications unless the new pulse shaping filter is enabled.



For more details refer to Nordic Information on the changes in the SOC: [LINK](#)

Reliability / Qualification Summary:

Product approval is according to the specification criteria and is internally released by the Product Management and Engineering departments.