



## Product / Process Change Notification (PCN)

- Major change  
 Minor change

<b>PCN #:</b> PCN_WIRL-PRO2_20201005 <b>Affected Series:</b> WIRL-PRO2; 2611011021000, 2611011021009, 2611036021001, 2611019021001, 2611017221001 <b>PCN Date:</b> September 05, 2020 <b>Effective Date:</b> October 05, 2020	<b>Change Category:</b> <input type="checkbox"/> Equipment / Location <input type="checkbox"/> General Data <input type="checkbox"/> Material <input type="checkbox"/> Process <input type="checkbox"/> Product Design <input type="checkbox"/> Shipping / Packaging <input type="checkbox"/> Supplier <input checked="" type="checkbox"/> Software
<b>Contact:</b> Product Management <b>Phone:</b> +49 (0) 7942 - 945 5001 <b>Fax:</b> +49 (0) 7942 - 945 5179 <b>E-Mail:</b> pcn.eismart@we-online.com	<b>Data Sheet Change:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <b>Attachment:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

### DESCRIPTION AND PURPOSE OF CHANGE:

In order to enhance the product reliability, Würth Elektronik released a new firmware for the Thyone-I module and the corresponding development kit, evaluation kits and the USB stick.

All products with date code 2020-09-07 or later, will be affected by this change. For the modules produced earlier, it is recommended for the customers to update the firmware to version 1.2.0 as per the instructions in the user manual.

### DETAIL OF CHANGE:

The firmware version of the radio module Thyone-I will increase its revision to 1.2.0. The update will be implemented due to updates of the nRF SDK to the current version 17.0.0 from Nordic Semiconductor.

In detail, Würth Elektronik will improve the firmware and take care of the following subjects,

#### 1) KI-Thyone-I-001:

In FW-V 1.0.0 acknowledgments (ACKs) did not work properly in radio profile 1, 2 and 3. The receiver of a message with ACK flag set did stop the radio before sending out the acknowledgment. No further radio operations can be performed in that receiver in that state. UART operations, not addressing a radio operation, are not impacted by that state.

FW-V 1.2.0 will ensure a proper function of acknowledgments in all radio profiles.

Affected functions:

CMD\_UNICAST\_DATA\_REQ & CMD\_UNICAST\_DATA\_EX\_REQ for unicast messages in command mode and any unicast transmission in transparent mode, when the UserSettings Parameter "RF\_NUM\_RETRIES" is > 0.

#### 2) The GPIOs that are not required by the application can now be configured as "not used" (recommended) in order to prevent leakage current. The configuration of the GPIO can be done remotely or via the UART interface.

#### 3) Selected updates from the nRF SDK version 17.0.0 will be implemented.

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Note: Firmware version 1.1.0 was used for internal purposes only.