



Product / Process Change Notification (PCN)	
<input checked="" type="checkbox"/> Major change <input type="checkbox"/> Minor change	
PCN #: PCN_WIRL-PRO2_Thyone-I_20220915 Affected Series: WIRL-PRO2; 2611011021000, 2611119024011, 2611079021001, 2611036021001, 2611059021001, 2611019021001, 2611017221001 PCN Date: June 15, 2022 Effective Date: September 15, 2022	Change Category: <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
Contact: Product Management Phone: +49 (0) 7942 - 945 5001 Fax: +49 (0) 7942 - 945 5179 E-Mail: pcn.eisos@we-online.com	Data Sheet Change: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Description and purpose of change: <p>In order to meet current market demands, Würth Elektronik will include new functionalities in its module Thyone-I. Following products will also be affected by this change.</p> <ul style="list-style-type: none"> - Thyone-I evaluation kits: 2611019021001 & 2611017221001, - Thyone-I mini evaluation board: 2611079021001, - Thyone-I USB radio stick: 2611036021001, - Thyone-I wireless Featherwing: 2611059021001. <p>All products with date code 2022-09-15 or later, will be affected by this change. Würth Elektronik recommends its customers to update the firmware version of existing modules to version 1.6.0., as per instructions in the user manual.</p> <p>For the evaluation kits, i.e. 2611019021001 & 2611017221001, the mini-evaluation board, i.e. 2611079021001 and the wireless Featherwing, i.e. 2611059021001, the installed firmware version can be recalled from the last three digits of the lot number, i.e. xxxxxxxxxxxx106.</p>	



For customer testing purposes, Würth Elektronik can provide the firmware images and the updated version of the user manual two months in advance, i.e. 15th of July.

In case a firmware freeze to the current version is required, please contact your local sales person or our support team at wireless-sales@we-online.com.

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

Detail of Change:

- For the remote GPIO pins, the maximum PWM value (100 %) has been mapped from 0xFF to 0xFE. In case the host controller is still using 0xFF as PWM value, it is internally mapped to 0xFE in order to guarantee backward compatibility. If a PWM of 100 % is not used, there is no need to update the host controller firmware.
- New commands are available to read back the current PWM value.
- UART transmission is run without additional pauses between bytes. There is no need to update the host controller firmware.
- The duplicate packet detection functionality has been improved. There is no need to update the host controller firmware.
- The maximum back-off time for clear channel assessment (CCA) has been reduced from 255 to 64 ms. There is no need to update the host controller firmware.

Reliability / Qualification Summary:

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