



<b>Product / Process Change Notification (PCN)</b>	
<input checked="" type="checkbox"/> Major Change <input type="checkbox"/> Minor Change	
<b>PCN Number:</b> PCN_WIRL-PRO8_20240618  <b>Affected Series:</b> WIRL-PRO8, WIRL-PRO9, WIRL-EVAL  <b>Affected Order Codes:</b> 2609011081000, 2609011181000, 2609026281001, 2609019281001, 2609031181000, 2609039281001, 2609011091000, 2609011191000, 2609026291001, 2609019291001, 2609041191000, 2609049291001.	<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>PCN Date:</b> 2024-03-18 (YYYY-MM-DD) <b>Effective Date:</b> 2024-06-18 (YYYY-MM-DD)	
<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.eisos@we-online.com	<b>Datasheet Change:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <b>Attachment:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Description of Change:</b> To meet current customer demands, Würth Elektronik will release maintenance updates for Tarvos-III (2609011081000), Thebe-II (2609031181000), Telesto-III (2609011091000), Themisto-I (2609041191000) radio modules and related products. The following products will also be affected by this change: <ul style="list-style-type: none"> <li>- Tarvos-III with 50 Ohm RF pad (2609011181000)</li> <li>- Tarvos-III USB radio stick (2609026281001)</li> <li>- EV-Kit Tarvos-III incl. ext. antenna (2609019281001)</li> <li>- EV-Kit Thebe-II incl. ext. antenna (2609039281001)</li> <li>- Telesto-III with 50 Ohm RF pad (2609011191000)</li> <li>- Telesto-III USB radio stick (2609026291001)</li> <li>- EV-Kit Telesto-III RF pad incl. ext. antenna (2609019291001)</li> <li>- EV-Kit Themisto-I incl. ext. antenna (2609049291001)</li> </ul>	



The installed firmware version can be recalled from the last three digits of the lot number. Refer to the “Details of Change” section for more details.

For customer testing purposes, Würth Elektronik can provide the firmware images and the updated draft version of the user manual on 18<sup>th</sup> of April 2024.

In case a firmware freeze to the current version is required, contact your local salesperson or our support team at [wcs@we-online.com](mailto:wcs@we-online.com).

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

**Details of Change:**

Affected Products	Order Code	Firmware version before PCN	Firmware version after PCN	Lot Number before PCN	Lot Number after PCN
Tarvos-III with integrated antenna	2609011081000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Tarvos-III with 50 Ohm RF pad	2609011181000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Tarvos-III USB radio stick	2609026281001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
EV-Kit Tarvos-III incl. ext. Antenna	2609019281001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Thebe-II	2609031181000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
EV-Kit Thebe-II incl. ext. Antenna	2609039281001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Telesto-III with integrated antenna	2609011091000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Telesto-III with 50 Ohm RF pad	2609011191000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Telesto-III USB radio stick	2609026291001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
EV-Kit Telesto-III RF pad incl. ext. Antenna	2609019291001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
Themisto-I	2609041191000	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303
EV-Kit Themisto-I incl. ext. antenna	2609049291001	3.0.0	3.3.0	xxxxxxxxxxx300	xxxxxxxxxxx303



The new firmware will contain the following changes:

1. Improved stability of the radio and repeater function under stress. There is no need to update the host controller firmware.
2. Added listen before talk feature. The module will check whether the radio channel is free before starting the data transmission. Since this feature is disabled by default, there is no need to update the host controller firmware.
3. In case the module is busy, and the host controller tries to send data using `CMD_DATA_REQ / CMD_DATAEX_REQ`, the module returns `CMD_DATA_CNF` with busy status (0x04). An update of the host controller firmware may be needed, in order to handle this.
4. The on time of the pins `TX_IND` and `RX_IND` has been adjusted. They show the accurate time of transmitting/receiving a radio packet now. There is no need to update the host controller firmware.

The physical behavior of the radio is unchanged. Thus, there's no need to run radio re-testing on end device level.

**Reliability / Qualification of Change:**

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