



<b>Product / Process Change Notification (PCN)</b>	
<input checked="" type="checkbox"/> Major change <input type="checkbox"/> Minor change	
<b>PCN #:</b> PCN_WIRL-BTLE_Proteus-II_20220915  <b>Affected Series:</b> WIRL-BTLE; 2608011024010, 2608011124010, 2608019024011, 2608019324011, 2608036024011  <b>PCN Date:</b> June 15, 2022  <b>Effective Date:</b> September 15, 2022	<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.eisos@we-online.com	<b>Data Sheet Change:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  <b>Attachment:</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Description and purpose of change:</b> In order to meet current market demands, Würth Elektronik will include new functionalities in its Bluetooth® module Proteus-II. Following products will also be affected by this change: <ul style="list-style-type: none"> <li>- Proteus-II evaluation kits: 2608019324011 &amp; 2608019024011</li> <li>- Proteus-II radio stick: 2608036024011</li> </ul> Furthermore, the product specific pinning information will be updated.  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 1.3.0., as per instructions in the user manual.  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. 15 <sup>th</sup> of July.  In case a firmware freeze to the current version is required, please contact your local sales person or our support team at <a href="mailto:wireless-sales@we-online.com">wireless-sales@we-online.com</a> .  There will be no change in form, fit, quality or reliability of the product.	

### Detail of Change:

- The user setting "*RF\_ConnectionTiming*" will be updated, in order to better support most recent Android and iOS devices. There is no need to update the host controller firmware.
- A new user setting "*RF\_AdvertisingFlags*" will be added, which allows to use the configured device name also in peripheral only mode. There is no need to update the host controller firmware.
- Corrected check for valid configuration of user setting "*RF\_DeviceName*" and "*RF\_TXPower*". There is no need to update the host controller firmware.
- The user setting "*CFG\_Flags*" will be updated with an option to disconnect in case the central device (i.e. mobile phone) does not respect the connection interval settings of the peripheral device. In firmware version 1.1.0, the Proteus-II disconnected in such case. In the new firmware version 1.3.0, the default value is to not disconnect.
- A new function has been added to a reserved pin. The new "*BUSY*" pin shows whether the Proteus-II is busy with radio transmission. In peripheral only mode, the data handling of the transparent UART can be improved by interpreting the signal level of the "*BUSY*" pin. Furthermore, the reception and buffering of the UART data has been improved.

In hardware designs where the reserved pin has not been connected, as described in the user manual for firmware version 1.1.0, the new firmware 1.3.0 can be used. In case the signal of the new pin shall be interpreted by the host, the host must be connected to that pin and the host firmware must be updated.



### Reliability / Qualification Summary:

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