

Würth Elektronik eiSos GmbH & Co. KG

EMC & Inductive Solutions

Max-Eyth-Straße 1 · 74638 Waldenburg · Germany

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Product / Process Change Notification (PCN)

- Major change
 Minor change

PCN #:	PCN_WIRL-PRO2_20210218	Change Category:	<input type="checkbox"/> Equipment / Location
Affected Series:	WE-WIRL-PRO2; WIRL-IND2 Triton: 2603011021000, 2603011021009 IND2: 2603011021060		<input checked="" type="checkbox"/> General Data
PCN Date:	January 18, 2021		<input type="checkbox"/> Material
Effective Date:	February 18, 2021		<input type="checkbox"/> Process
			<input type="checkbox"/> Product Design
			<input type="checkbox"/> Shipping / Packaging
			<input type="checkbox"/> Supplier
			<input type="checkbox"/> Software
Contact:	Product Management	Data Sheet Change:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Phone:	+49 (0) 7942 - 945 5001		
Fax:	+49 (0) 7942 - 945 5179	Attachment:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
E-Mail:	pcn.eismart@we-online.com		

DESCRIPTION AND PURPOSE OF CHANGE:

Because of a database mismatch, Würth Elektronik corrects the value of the line of sight range, the radiated output power and the radiated receiver sensitivity.

All products ever delivered, already had the corresponding value of the correction.

This is a datasheet correction only. There will be no change in form, fit, function, quality or reliability of the product.

DETAIL OF CHANGE:

Properties	Old Value	New Value
Line of Sight Range	500	600
Output Power e.r.p.	7.5	0.2
RX sensitivity e.r.p.	-113	-105

Due to this mismatch the specification of output power and sensitivity is worsened but the resulting range improved. The effective behaviour of the module is neither worsened nor improved, as the module itself is unchanged.

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RF-Electrical Properties:

Properties		Test conditions	Value	Unit
Frequency min.	$f_{min.}$	VDD,typ,TAMB = 25 °C, RH = 60 %	2401.5	MHz
Frequency max.	$f_{max.}$	VDD,typ,TAMB = 25 °C, RH = 60 %	2477.5	MHz
Line of Sight Range		Two-ray ground-reflection model	500	m
Line of Sight Conditions: Antenna Height			2	m
RF Bitrate max.	$R_{b, max.}$	latest FW revision	72	kbps
Supply Current Transmitting	I_{TX}	VDD,typ,TAMB = 25 °C, RH = 60 %	38	mA
Supply Current Receiving	I_{RX}	VDD,typ,TAMB = 25 °C, RH = 60 %	10	mA
Output Power e.r.p.	P_{tx}	VDD,typ,TAMB = 25 °C, RH = 60 %	7.5	dBm
RX sensitivity Condition Bitrate	$R_{x, sens, kbps}$	latest FW revision	1.5	kbps
RX sensitivity e.r.p.	$R_{x, sens}$		-113	dBm

RELIABILITY / QUALIFICATION SUMMARY:

There will be no change of the product, therefore no additional reliability or qualification testing will be performed.