Test report no. 18011299

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EUT: 2609011091001, 2609011191001

FCC ID: R7TAMB9826

FCC Title 47 CFR Part 15 Date of issue: 2018-05-08

Annex acc. to FCC Title 47 CFR Part 15 relating to Würth Elektronik eiSos GmbH & Co. KG 2609011091001, 2609011191001

# Annex no. 11 **RF** exposure

**Title 47 - Telecommunication** Part 15 - Radio Frequency Devices Subpart C – Intentional Radiators ANSI C63.4-2014 ANSI C63.10-2013



Date: 2017-09-07

Created: P9

51429 Bergisch Gladbach/ Germany

**Rottland 5a** 

Controlled: P4 Released: P1

Vers. no. 1.17

# Test report no. 18011299

#### EUT: 2609011091001, FCC ID: R7TAMB9826 2609011191001

FCC Title 47 CFR Part 15 Date of issue: 2018-05-08

### Regulation

15.247(i) Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

## **Test result**

#### **MPE** calculation

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a "worst case" prediction.

$$S = PG/4\pi R^2$$
 Or  $S = EIRP/(4\pi R^2)$ 

Where

S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = power input to the antenna (in appropriate units e.g. mW)

G = power gain of the antenna in the direction of interest relative to the isotropic radiator

R = distance to the center of radiation of the antenna (appropriate units e.g. cm)

EIRP = equivalent isotropically radiated power

#### **Calculation:**

Radio frequency hazard (Section 15.247)					
Max. EIRP		Distance	Calculated Power Density	Limit	Margin
dBm	mW	cm	mW / cm <sup>2</sup>	mW / cm <sup>2</sup>	mW / cm <sup>2</sup>
Integrated Chip antenna					
12.0	16.0	20	0.003175595	0.60	0.597
11.9	15.7	20	0.003115570	0.61	0.607
11.9	15.5	20	0.003075336	0.62	0.617
		Integra	ted wire antenna		
14.0	25.3	20	0.005032978	0.60	0.595
13.9	24.8	20	0.004937846	0.61	0.605
13.9	24.5	20	0.004874078	0.62	0.615
*Limit: the re	eference level for	general public exposu	re according to the OET Bull	etin 65, edition	97-01 Table 1.

The above measurements are made for following frequencies 902.5 MHz, 915 MHz and 927.5 MHz respectively.

Test Cables used	
Test equipment used	144, 226, 651

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