Date: Dec 20th 2018

to:	from:
Regulatory Certification Body	SALTO Systems, S.L.
DEKRA Testing and Certification, S.A.U.	C/Arkotz, 9, Pol. Lanbarren
Parque Tecnológico de Andalucía	Oiartzun (Guipuzkoa) 20180 Spain
C/ Severo Ochoa 2 & 6	
29590 Campanillas	
Málaga, España	

Related to product:

Type of equipment:	Internal node including all mechanical variants
Brand name:	SALTO RFnet internal Node
Model:	RF2MODULE
FCC ID:	UKCRF2MODULE
IC:	10088A-RF2MODULE

To whom it may concern,

This is an RF exposure evaluation for the aforementioned equipment.

As you will see below, the product can be used in portable conditions and certified without the need of submitting a SAR test report or an MPE calculation to show compliance with FCC or ISED regulation.

1. Introduction

The device RF2MODULE is a radio frequency transmitter-receiver. It is an IEEE 802.15.4 Zigbee transceiver working in the 2.4 GHz band and is designed to be used in portable exposure conditions.

2. FCC SAR limits

According to § 2.1093 (d) (2) the limits for General Population/Uncontrolled exposure are:

- 0.08 W/kg as averaged over the whole-body And
- peak spatial-average SAR limit is 1.6 W/kg, averaged over any 1 gram of tissue over the whole body.

3. ISED SAR limits

ISED has adopted the SAR and RF field strength limits established in Health Canada's RF exposure guideline, Safety Code 6: Limits of Human Exposure to Radiofrequency Electromagnetic Energy in the Frequency Range from 3 kHz to 300 GHz.

4. **Compliance criteria**:

For FCC,

Individual transmitters are deeded to comply with § 2.1093 requirements if the output power of the transmitter meets the conditions specified in section 4.3.1 (Standalone SAR test exclusion) considerations of the document "KDB 447498 D01 Clause 4.3.1 General RF Exposure Guidance v05r02".

For ISED,

Limits specified in section 2.5 of RSS 102, Issue 5 for exemption from Routine Evaluation Limits for devices to be used at less than or equal to 20 cm from the user:

Frequency	Exemption Limits (mW)						
(MHz)	At separation	At separation	At separation	At separation	At separation		
	distance of	distance of	distance of	distance of	distance of		
	≤5 mm	10 mm	15 mm	20 mm	25 mm		
≤300	71 mW	101 mW	132 mW	162 mW	193 mW		
450	52 mW	70 mW	88 mW	106 mW	123 mW		
835	17 mW	30 mW	42 mW	55 mW	67 mW		
1900	7 mW	10 mW	18 mW	34 mW	60 mW		
2450	4 mW	7 mW	15 mW	30 mW	52 mW		
3500	2 mW	6 mW	16 mW	32 mW	55 mW		
5800	1 mW	6 mW	15 mW	27 mW	41 mW		

5. Compliance calculations:

Evaluatio Frequency (GHz)	Peak output power. EIRP (dBm)	Peak output power. EIRP (mW)	Evalutation distance per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 (mm)	[(max. power of channel, including tune-up tolerange)/(min. tested separation distange)] · [vf(GHz	of ing ce, st	SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1)
2.405	3.74	2.366	5	0,3051	≤3	COMPLIANT

Sincerely,

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