

Date: June 10th 2019

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

Related to product:

Type of equipment:	Electronic Reader Series including all mechanical variants
Brand name:	Modular Wall Reader 2.0
Model:	WRM0B, and WRM0J
FCC ID:	UKCWRM0B
IC:	10088A-WRM0B

Re: Family declaration letter.

We hereby declare that these 2 Modular Readers, WRM0B, and WRM0J are a family of product with RF capabilities.

Our request is to certify the NFC interface present on the 2 products.

Family	Modular Wall Reader 2.0		
Family members	models	SW version	Characteristics
	WRM0B (type reference: P0506)	0152 (Control Firmware) + 0136 (BGM111 Firmware)	<i>"MiFare"</i> NFC chipset PN512 @13.56 MHz Modulations ISO-14443 and ISO-15693 Bluetooth module BGM111
	WRM0J (type reference: P0506)	0153 (Control Firmware) + 0136 (BGM111 Firmware)	<i>"iClass"</i> NFC chipset PN512

			@13.56 MHz Modulations ISO-14443 and ISO-15693 Bluetooth module BGM111
Same construction. One additional iClass ROM in WRM0J to allow reading of <i>iClass</i> cards. No affectation to RF characteristic.			

These 2 devices integrate the same chipset from NXP Semiconductors to provide NFC communication capabilities.

All of them have Bluetooth LE capacity provided by an already FCC and ISED certified module (module BGM111 FCC ID: QOQBGM111, IC: 5123A-BGM111).

They all 2 models are aesthetically the same in their external appearance.

Model WRM0J has a couple more components soldered in the PCB case which have nothing to do with the radio system.

We refer to WRM0B as “MiFare” and to WRM0J as “iClass”. This is due to the model WRM0J being able to read a special kind of “HiD cards” which encode their information in a specific way.

To do this a memory chip called “iClass processor” is installed in model WRM0J. Hence, the model WRM0J can read the aforementioned “HiD cards” while model WRM0B can’t.

This extra component does not affect the radio performance in any way. Modulations are the same, frequency range, carrier, current, the antenna ...

Sincerely,

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