

**Date:** June 10<sup>th</sup> 2019

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

**Related to product:**

<b>Type of equipment:</b>	Electronic Reader Series including all mechanical variants
<b>Brand name:</b>	XS4 Wall Reader 2.0
<b>Model:</b>	WRD0B, WRD0J and WRD0S
<b>FCC ID:</b>	UKCWRD0B
<b>IC:</b>	10088A- WRD0B

**Re: Family declaration letter.**

We hereby declare that these 3 Electronic Readers, WRD0B, WRD0J and WRD0S are a family of product with RF capabilities.

Our request is to certify the NFC interface present on the 3 products.

Family	XS4 Wall Reader 2.0		
Family members	models	SW version	Characteristics
	WRD0B (type reference: P1619)	0152 (Control Firmware) + 0136 (BGM111 Firmware)	<i>"MiFare"</i>  NFC chipset PN512 @13.56 MHz  Modulations ISO-14443 and ISO 15693  Bluetooth module BGM111
	WRD0J (type reference: P1619)	0153 (Control Firmware) + 0136 (BGM111 Firmware)	<i>"iClass"</i>  NFC chipset PN512

			@13.56 MHz  Modulations ISO-14443 and ISO-15693  Bluetooth module BGM111
	WRD0S (type reference: P1619)	0130 (Control Firmware)	“MiFare”  NFC chipset PN512 @13.56 MHz  Modulations ISO-14443 and ISO-15693  Bluetooth module DirectKey
Same construction.  One additional iClass ROM in WRD0J to allow reading of <i>iClass</i> cards. No affectation to RF characteristic.			

These 3 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, nevertheless is not the same module in all 3.

- WRD0B and WRD0J integrate the module BGM111 (FCC ID: QOQBGM111, IC: 5123A-BGM111)
- WRD0S integrates the module DirectKey (FCC ID: TCZ-10103751G1, IC: 1175F-10103751G1)

They all 3 models are aesthetically the same in their external appearance.

Model WRD0J has a couple more components soldered in the PCB case which have nothing to do with the radio system.

We refer to WRD0B and WRD0S as “MiFare” and to WRD0J as “iClass”. This is due to the model WRD0J 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 WRD0J. Hence, the model WRD0J can read the aforementioned “HiD cards” while models WRD0B and WRD0S cannot.



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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