

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:	XS4 Wall Reader 2.0
Model:	WRD0B, WRD0J and WRD0S
FCC ID:	UKCWRD0B
IC:	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		
	models	SW version	Characteristics
Family members	WRD0B (type reference: P1619)	0152 (Control Firmware) + 0136 (BGM111 Firmware)	"MiFare" 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)	"iClass" NFC chipset PN512

			<p>@13.56 MHz</p> <p>Modulations ISO-14443 and ISO-15693</p> <p>Bluetooth module BGM111</p>
	WRDOS (type reference: P1619)	0130 (Control Firmware)	<p>“MiFare”</p> <p>NFC chipset PN512 @13.56 MHz</p> <p>Modulations ISO-14443 and ISO-15693</p> <p>Bluetooth module DirectKey</p>
Same construction.			
One additional iClass ROM in WRD0J to allow reading of <i>iClass</i> cards.			
No affection 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)
- WRDOS 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 WRDOS 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 WRDOS cannot.

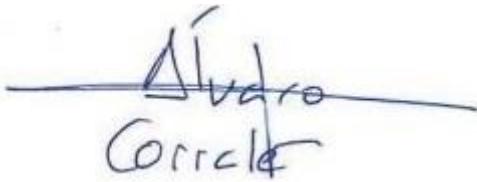
SALTO

inspired access

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

Sincerely,

By:	Borja Nieto Lasheras	PA
Title:	Electronic Certifications Engineer	
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A handwritten signature in blue ink, appearing to read 'Borja Nieto Lasheras', is written over a horizontal line. The signature is somewhat stylized and includes a small 'B' at the beginning.