

## SPRINGPROX-RC RUGGED CONTACTLESS SMARTCARD READER + 2 $\mu$ SIM/SAM



SpringProx-RC is a full-featured contactless reader / writer, with two internal SIM/SAM connectors. SpringProx-RC targets TDS Recon rugged handheld computers, running Windows Mobile.

### KEY FEATURES

Contactless smartcards are increasingly present in today's daily life, and are no longer limited to corporate offices.

With a focus on design and ease of use, **SpringProx RC** is specially adapted to mobile applications in hostile environments.

### SUPPORTED CONTACTLESS SMARTCARDS

**SpringProx RC** is compliant with ISO/IEC 14443 A and B Supported smartcards include :

- NXP (formerly Philips Semiconductors) : Mifare Classic and UltraLight, Desfire, ProX, SmartMX,
- MultOS or JavaCard T=CL cards,
- ICAO e-passports and other ID or travel cards,
- Calypso transportation cards,
- NFC mobile phones or other NFC-capable objects (tag emulation mode)

### A FEW TYPICAL APPLICATIONS

- Loyalty programs
- Micro-payment,
- Card issuing desk,
- User identification,
- Ticket validation,
- Ticket validity control,
- Transportation passes,
- Resort access
- Event access and monitoring
- and more

### SPRINGCARD & PRO ACTIVE

Established in 2000, **Pro Active** is an innovative provider of smartcard-related solutions, and one of the leaders on the contactless-reader market.

**SpringCard** distributes **Pro Active's** contact and contactless products worldwide, under a single brand name.

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A PRO ACTIVE BRAND

**Pro  
Active**

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### TECHNICAL SPECIFICATIONS

#### Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	up to 5 cm depending on card and on environment
Card baud rate	106, 212 or 424 kbit/s
Supported cards ( <i>partial list</i> ): NXP (Philips) MIFARE Classic & UltraLight NXP (Philips) DESFIRE, SmartMX, ProX Infineon SLE66 family ST MicroElectronics SR, SRI, SRIX families ASK CTS256/CTS512 Calypso (CD97, CD21, GTML, etc) <sup>1</sup> And virtually any ISO 14443 A or B compliant smartcard	

<sup>1</sup> Calypso card operation is subject to an extra license fee. Contact us for information.

#### 2 x SIM/SAM smartcard interfaces

Standards	ISO/IEC 7816, T=0 and T=1
Format	ID-000 ( $\mu$ SIM)
Card clock	3.6864 MHz
Card power supply	3V or 5V (classes A and B) jumper for selection
Card baud rate	Up to 115200 bit/s
Remark	SAM slots are protected into dry area

#### CompactFlash interface

Standard	Compact Flash type I
Power supply	Powered by the handheld ( $\approx$ 400mA @ 3V) 5V tolerant
Drivers	Seen as a Plug'N'Play serial port Uses standard driver from Windows CE / Mobile
API and SDK	SpringProx API SpringProx SDK sold separately

#### Hardware specifications

Dimensions (LxWxH)	80 x 60 x 35 mm (approx)
Housing material	PC
Weight	$\approx$ 135g (not including the handheld)

#### Environment and safety

Operating temperature	0 $\rightarrow$ +50°C
Storage temperature	-40 $\rightarrow$ +85°C
MTBF	500 000 hours
Durability	SIM/SAM slots : 5 000 insertions
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

#### Integration

SpringProx-RC has been designed for the TDS RECON handheld  
For more information, visit  
[www.tdsway.com](http://www.tdsway.com)

### ORDER CODE

PART #	Description
SP-RC02	SpringProx-RC: ISO 14443-A/B reader/writer with 2 internal SIM/SAM slots for TDS Recon.

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