

## SPRINGPROX-RC

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



SpringProx-RC is a full-featured contactless reader / writer with two internal  $\mu$ SIM/SAM slots.

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/B. Supported smartcards include :

- NXP(formerlyPhilipsSemiconductors):MifareClassic 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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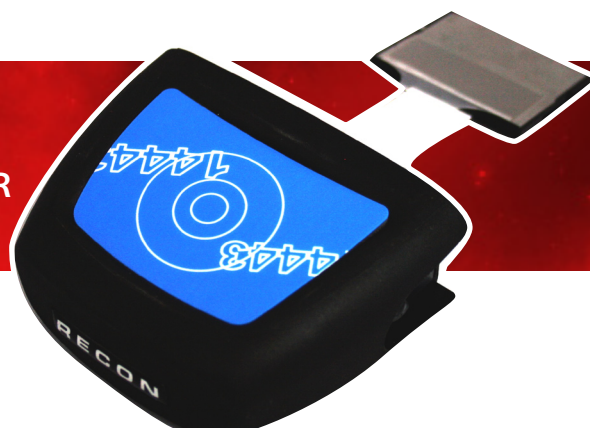
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A PRO ACTIVE BRAND  
**Pro Active**

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



### 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<br>depending on card and on environment |
| Card baud rate     | 106, 212 or 424 kbps                               |

Supported cards (partial list) :  
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 $\mu$ SIM/SAM smartcard interfaces

|                 |  |
|-----------------|--|
| Standards       | ISO/IEC 7816, T=0 and T=1                            |
| Format          | ID-000 ( $\mu$ SIM)                                  |
| Card clock      | 3.6864 MHz   |
| Smartcard class | A and A/B (5V or 3.3V cards)<br>Jumper for selection |
| Card baud rate  | Up to 115200 bps                                     |
| Remark          | $\mu$ SIM/SAM slots are kept protected in a dry area |

#### CompactFlash interface

|              |  |
|--------------|--|
| Standard     | Compact Flash type I   |
| Power supply | Powered by the handheld (≈400mA @ 3V)<br>5V tolerant                               |
| Drivers      | Seen as a Plug'N'Play serial port<br>Uses standard driver from Windows CE / Mobile |
| API and SDK  | SpringProx API - Free SDK available  |

#### Hardware specifications

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

#### Environment and safety

|                       |  |
|-----------------------|--|
| Operating temperature | 0 → +70°C                              |
| Storage temperature   | -40 → +85°C                            |
| MTBF                  | 500 000 hours                          |
| Durability            | $\mu$ 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.tdsware.com](http://www.tdsware.com)

### ORDER CODE

| PART #  | Description  |
|---------|--|
| SP-RC02 | SpringProx-RC: ISO 14443-A/B reader/writer<br>with 2 internal $\mu$ SIM/SAM slots for TDS Recon. |

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