springcard

PROX'N'ROLL PC/SC CONTACTLESS SMARTCARD READER

SpringCard Prox'N'Roll is a versatile 13.56MHz contactless reader and encoder for PC.

With an attractive look and a fast USB interface, Prox'N'Roll is robust and affordable, ideal for high volume deployments.

KEY FEATURES

Contactless smartcards are increasingly present in today's end user daily activities, and not limited to corporate offices.

Along with its attractive look & feel and its USB interface for fast data transfer, Prox'N'Roll is robust and adapts to a variety of situations.

A high performance technology: **Prox'N'Roll** supports USB 2.0 full speed (12Mbps), and fastest smartcard baud rate (848kbps).

PC/SC MODE

Prox'N'Roll PC/SC is supported by major operating systems. This standardized smartcard reader API allows developers to work with contactless cards (including Mifare and other wired-logic chips) as easily as if they were classical T=0 or T=1 contact cards.

LEGACY MODE

Once configured for legacy mode, **Prox'N'Roll** is 100% compliant with earlier **SpringCard** products, such as popular the popular CSB4 Mifare reader/writer. A smooth migration is possible without changing anything in existing software.

SUPPORTED CONTACTLESS SMARTCARDS

Prox'N'Roll 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-enabled objects (tag emulation mode)
- and more

A FEW TYPICAL APPLICATIONS

- Loyalty programs,
- Micro-payment,
- Card issuing desk,
- User identication,
- and more

SPRINGCARD & PRO ACTIVE

Established in 2000, **Pro Active** SAS is an innovative provider of contact/contactless smartcard reader/ writer/encoder, and a leader on the contactless-reader market.

All **Pro Active** products are distributed worldwide under the **Springcard** brand name.

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PROX'N'ROLL PC/SC CONTACTLESS SMARTCARD READER

TECHNICAL SPECIFICATIONS

| Contactless smartcard interface | |
|--|---|
| Standards | ISO/IEC 14443 A and B, T=CL |
| RFID carrier | 13.56 MHz |
| Operating distance | 1 to 5 cm depending on card and on environment |
| Card baud rate | 106, 212, 424 or 848 kbit/s |
| 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) ¹ And virtually any ISO 14443 A or B compliant smartcard | |

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

| Hardware specifications | |
|-------------------------|--|
| Status indicator | 3 LEDs (red, blue, green) Buzzer (85 dBA approx.) |
| Color | Blue wheels + black body |
| Dimensions (LxWxH) | 75 x 75 x 25 mm |
| Housing material | ABS |
| Weight | ≈ 150g |
| USB cable | ≈ 1.80 m |

| Environment and safety | |
|------------------------|---------------------------|
| Operating temperature | 0 →+50°C |
| Storage temperature | -40 →+85°C |
| MTBF | 500 000 hours |
| CE mark | EN50082 / EN55022 class B |
| Other standards | RoHS |

| nformation in | this document | is subject to c | nange withou | at notice. |
|---------------|---------------|-----------------|--------------|------------|
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PRO ACTIVE company with a capital of 227 000 € R.C.S. EVRY B 429 665 482 N.A.F. 722 C VAT # : FR 27 429 665 482 France

| USB interface | |
|--|---|
| Standard | USB 2.0 full speed (12Mbps) - also supports 1.1 |
| Power supply | Bus powered (≈200mA under 5V) |
| User-selectable PC/SC or legacy operating mode | |

| PC/SC mode | |
|---------------------------|-------------------------------------|
| Standard USB CCID profile | |
| Windows driver | Tested with Windows 2000, XP, Vista |
| Linux and others | Open source pcsc-lite CCID driver |
| API and SDK | Full PC/SC – Free SDK available |

| Legacy mode ² | |
|---|---------------------------------------|
| USB virtual serial comm. port API compliant with existing products (CSB4, CSB5, K531, etc) | |
| Drivers | Windows, Windows CE, Linux |
| API and SDK | SpringProx API SDK sold separately |

 2 Out of factory configuration is PC/SC. Customer wishing to use the product in legacy mode have to change configuration (detailed procedure on our web site).

ORDER CODES

| PART # | Description |
|--------|---|
| | Prox'N'Roll USB - PC/SC mode |
| l | legacy mode available by software configuration |

PRECAUTIONS FOR INSTALLATION

This device is a contactless reader; it uses inductive coupling (magnetic field) to power the cards and communicate with them. Precaution must be taken to keep the reader far from any source of perturbation (e.g. other readers, computers,etc). Installing the reader near a metal surface (aluminium or steel plate,etc) will lead to shorter operating distance and increased power consumption. SpringCard has a long experience installing contactless couplers in various kinds of devices. Do not hesitate to contact us if you need any assistance.

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