# Prox'n'Roll

USB 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, NFC tags and RFID labels 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 (up to 848kbps).

# **PC/SC INTERFACE**

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

# A FEW TYPICAL APPLICATIONS

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

# **SUPPORTED CONTACTLESS SMARTCARDS**

**Prox'N'Roll** is compliant with ISO/IEC 15693 and 14443 (A and B) standards. List of supported chips includes:

- NXP (Philips): ICODE1, ICODE-SLI, Mifare Classic and UltraLight, Desfire, ProX, SmartMX,
- Texas Instrument : TagIT,
- ST MicroElectronics : SR176, SRiX, etc
- ASK CTS256B and CTS512B,
- HID iClass and Inside PicoTag,
- MultOS or JavaCard T=CL cards,
- Calypso transport cards,
- NFC tags type 1, 2 and 4,
- NFC mobile phones or other NFC-capable objects (working in card emulation mode)

**Prox'N'Roll** LITE is a cost-effective version that supports ISO/IEC 14443 only.

# **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.

HEADQUARTERS, EUROPA SPRINGCARD

13 voie la Cardon Parc Gutenberg 91120 Palaiseau FRANCE

Phone: +33 (0) 164 53 20 10 Fax: +33 (0) 164 53 20 18 Americas
SPRINGCARD

6161 El Cajon Blvd Suite B, PMB 437 San Diego, CA 92115 USA

Phone: +1 (713) 261 6746

www.springcard.com

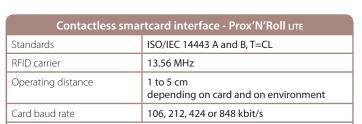




# Prox'n'Roll

**USB PC/SC CONTACTLESS SMARTCARD READER** 





### Supported cards (partial list):

- NXP (Philips) MIFARE Classic, Plus, UltraLight
- NXP (Philips) DESFIRE, SmartMX, ProX
- Infineon SLE66 family
- Innovision Jewel, Topaz
- Calypso (CD97, CD21, GTML, etc), Innovatron radio protocol And virtually any ISO/IEC 14443 A or B compliant smartcard

Contactless smartcard interface - Prox'N'Roll		
RFID carrier	13.56 MHz	
Operating distance	1 to 5 cm depending on card and on environment	
Card baud rate	ISO/IEC 14443 : 106, 212, 424 or 848 kbit/s ISO/IEC 15693 : 26 kbit/s	

### Supported cards (partial list): same as Prox'N'Roll LITE, plus

- NXP (Philips) ICODE1, ICODE-SLI, etc
- Texas Instrument TagIT
- ST MicroElectronics SR, SRI, SRIX families
- ATMEL CryptoRF
- HID iClass, Inside PicoTag
- ASK CTS256/CTS512

And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label

# USB PC/SC interface Standard USB 2.0 full speed (12Mbps) - also supports 1.1 USB CCID profile - PC/SC v.2 compliant Power supply Bus powered (≈200mA under 5V) Windows driver CCID driver supplied by Microsoft Alternate SpringCard driver (WHQL-certified) for advanced operation Linux and others Open source pcsc-lite CCID driver API and SDK 100% PC/SC - Free SDK available

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	-20 <del>→</del> +70°C	
Storage temperature	-40 →+85°C	
MTBF	500 000 hours	
CE mark	EN50082 / EN55022 class B	
Other standards	RoHS	

# 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.

# **ORDER CODES**

PART #	Description
PNRU-11	<b>Prox'N'Roll</b> USB - ISO/IEC 14443 + 15693
PNRU-10	Prox'N'Roll LITE USB - ISO/IEC 14443 only

Information in this document is subject to change without notice.

Copyright © PRO ACTIVE SAS 2008, all rights reserved.

Reproduction without written permission of PRO ACTIVE is forbidden.

SPRINGCARD, PRO ACTIVE, and both logos are registered trademarks of PRO ACTIVE SAS.

All other trademarks are property of their respective owners.

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



www.springcard.com

