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Prox'N'Roll
USB RFID SCANNER

SpringCard Prox'N'Roll is a versatile 13.56MHz RFID scanner. Its USB interface emulates a standard keyboard : no driver installation, no software required !
Prox'N'Roll RFID scanner is highly configurable to read serial number or data from any RFID tag or contactless smartcards.

KEY FEATURES

Traditionally, reading data from any RFID tag or contactless smartcard means developing a PC software to drive the reader step by step.

Prox'N'Roll RFID scanner dramaticaly changes this paradigm: the reader is « autonomous » and perfoms all the job on its own. Collected data are then transmitted to the computer as if they were entered on the keyboard.

Thanks to the Prox'N'Roll RFID scanner, reading RFID chips is now as easy as reading a barcode.

EASY CONFIGURATION

Prox'N'Roll RFID scanner is totally configured through a secure master card. The scanner is able to run 4 recognition templates simultaneously.

A FEW TYPICAL APPLICATIONS

- Loyalty program, user identification and asset tracking,
- Logistics,
- RFID asset management

SUPPORTED CONTACTLESS SMARTCARDS

Prox'N'Roll is compliant with ISO/IEC 14443 A/B ISO/IEC 15693 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 transportation cards,
- NFC mobile phones or other NFC-capable objects (tag emulation mode)

SPRINGCARD & PRO ACTIVE

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

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

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TECHNICAL SPECIFICATIONS

Contactless smartcard interface	
Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 and 18000-3
RFID carrier	13.56 MHz
Operating distance	up to 5 cm depending on card and on environment
Card baud rate	106 kbit/s (14443) 26 kbit/s (15693)

Supported cards (partial list) :
- NXP (Philips) ICODE1, ICODE-SLI, etc
- Texas Instrument TagIT
- NXP (Philips) MIFARE Classic & UltraLight
- NXP (Philips) DESFIRE, SmartMX, ProX
- Infineon SLE66 family
- ST MicroElectronics SR, SRI, SRIX families
- HID iClass, Inside PicoTag
- ASK CTS256/CTS512
- Calypso (CD97, CD21, GTML, etc)[1]

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

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

USB interface	
Standard	USB 2.0 full speed (12Mbps) - also supports 1.1
Power supply	Bus powered (≈200mA under 5V)
Profile	USB Human Interface Device (HID) class Seen as an USB keyboard
Keyboard emulation	QWERTY, AZERTY, QWERTZ layouts Characters A to Z and 0 to 9 only
Keyboard behaviour	Prefix and suffix possible for each scan each scan (e.g. TAB, ENTER...)

Hardware specifications	
Status indicator	3 LEDs (red, blue, green) Buzzer (85 dBA approx.)
Color	Blue wheels or yellow (or other colors?) + 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 →+70°C
Storage temperature	-40 →+85°C
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

ORDER CODES

PART #	Description
PNRU-16	Prox'N'Roll USB RFID scanner

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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