

## PROXRUNNER BLUETOOTH RFID SCANNER



SpringCard ProxRunner is a wireless 13.56MHz RFID scanner. ProxRunner is highly configurable to read serial number or data from any RFID tag or contactless smartcards.

### KEY FEATURES

Developed in partnership with **Baracoda Traceability**, a worldwide leader in bar code solutions, ProxRunner RFID scanner is the easiest product for mobile contactless operation.

Thanks to its Bluetooth connection, ProxRunner integrates easily in PC, PocketPC or SmartPhone based solutions. Lightweight and ruggedized, the product is ideal for mobile operation even in unfriendly environments.

### A FEW TYPICAL APPLICATIONS

- Loyalty, user identification and tracking,
- RFID or asset tracking, logistics,
- RFID asset management : books, medicines or other valuables.

### CUSTOMIZING PROXRUNNER PLATFORM

- Highly customizable platform,
- Proprietary card authentication scheme,
- Large amount of data,
- On-the-fly writing into the card,
- Embedded card validation algorithm,
- Custom reader firmwares code compatible with K632 (or K531),
- Firmware can be downloadable through Bluetooth link within seconds.

### OPERATING MODE AND CONFIGURATION

- Depending on its configuration template, ProxRunner will either read serial numbers, fetch data from memory cards or labels, or retrieve data in the files of a T=CL card (even after 3-DES authentication for Desfire cards)
- ProxRunner can execute 1 to 4 templates simultaneously, giving a single reader the opportunity to accommodate different kind of cards, without the end-user noticing they are different
- Templates are loaded in ProxRunner using secured "master cards", and are 100% compliant with IWMK632 template model. This allows immediate deployment of ProxRunner in mobile access control applications where IWMK632 is already in use

### 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.

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

964 Fifth Avenue  
Suite 235  
San Diego, CA 92101  
USA

Phone : +1 (619) 544 1450  
Fax : +1 (619) 573 6867

[www.springcard.com](http://www.springcard.com)

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### TECHNICAL SPECIFICATIONS

#### Contactless & RFID 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 4 cm depending on card and on environment
Card baud rate	106 kbit/s (14443) 26 kbit/s (15693)
Supported cards (partial list) :	<ul style="list-style-type: none"> <li>▪ NXP (Philips) ICODE1, ICODE-SLI, ...</li> <li>▪ Texas Instrument TagIT</li> <li>▪ NXP (Philips) MIFARE Classic &amp; UltraLight</li> <li>▪ NXP (Philips) DESFIRE, SmartMX, ProX</li> <li>▪ Infineon SLE66 family</li> <li>▪ ST MicroElectronics SR, SRI, SRIX families</li> <li>▪ HID iClass, Inside PicoTag</li> <li>▪ ASK CTS256/CTS512</li> <li>▪ Calypso (CD97, CD21, GTML...)<sup>1</sup></li> </ul>
And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label	

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

#### Bluetooth

Standards	-Bluetooth® 1.2 Gap & SPP profiles
Range	Class 1 : up to 100m

#### Operating modes

Connected	Real-time transmission to host
Batch mode	Stores up to 10 000 idents with timestamp

#### Power

Rechargeable battery	1 x 2000 mAh Li-ion
Charger	5V, 500mA
Typical eutonomy	More than 30 000 scans

#### Hardware specifications

Trigger button	Power on, connect and scan functions
Status indicator	2 tricolor LEDs (red, orange, green) Buzzer (85dBA)
Housing	Grey ABS-PC and Black SEBS rubber
Dimensions	125 x 52 x 33 mm
Weight	132 g

#### Environment and safety

Operating temperature	-10 → +40°C
Storage temperature	-40 → +85°C
Durability	1 000 000 trigger cycles
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS, FCC

### ORDER CODES

PART #	Description
PXRN-16	ProxRunner Bluetooth 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...). Installing the reader near a metal surface (aluminium or steel plate...) will lead to shorter operating distance and increased power consumption. SpringCard has a long experience installing contactless couplers in various kind of devices. Do not hesitate to contact us if you need any assistance.

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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

[www.springcard.com](http://www.springcard.com)

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