

PROXRUNNER BLUETOOTH RFID SCANNER



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

KEY FEATURES

Developed in with **Baracoda Traceability**, a worldwide leader in barcode 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

- ProxRunner is a highly customizable platform
- Proprietary card authentication scheme,
- Large amount of data,
- On-the-fly writing into the card,
- Embedded card validation algorithm.
- ProxRunner custom reader firmwares are code compatible with K632 (or K531) custom firmwares.
- ProxRunner reader firmware can be downloaded

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.

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PROXRUNNER BLUETOOTH RFID SCANNER



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"> ▪ NXP (Philips) ICODE1, ICODE-SLI, ... ▪ 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...)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.

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)
Color	Grey body + black inserts
Dimensions	121 x 41 x 32 mm
Weight	150 g

Environment and safety	
Operating temperature	-20 → +70°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 pending

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.

*****PRELIMINARY*****

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