

**BLUETOOTH CONTACTLESS READER**

Pro-Active **ProxRunner** is a mobile and rugged contactless reader, operating in the 13,56MHz range.

Following Pro-Active long experience in contactless readers, and designed in partnership with Baracoda, a leader in mobile Bluetooth barcode scanners, **ProxRunner** opens a new area in the mobile identification market.

- Running in Bluetooth-connected mode, **ProxRunner** is the perfect reader for on-the-field control or micro-payment (transportation, wide area physical security, events and leisure), and more.
- In standalone mode, **ProxRunner**, can store up to 10000 idents with timestamp in its internal memory, and forward them back to the computer even after 4 days of continuous use.

With its huge list of supported tags (ISO 14443 A & B, Mifare, ISO 15693, ICODE, TagIT...), **ProxRunner** is the key product for cordless RFID traceability : data capture, inventory, library or asset management...

**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.

**CUSTOMIZING PROXRUNNER PLATFORM**

- **ProxRunner** is a highly customizable platform ; a custom reader firmware may be developed by Pro-Active authorized partners, to meet any specific requirement :
  - ✓ 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.


**ORDER CODES**

Part #	Description
<b>PXR-10</b>	<b>ProxRunner Bluetooth</b> <ul style="list-style-type: none"> <li>• 1 ProxRunner with rechargeable battery</li> <li>• 1 PDA stylus accessory</li> <li>• 1 charger</li> <li>• 1 CD with software and documentation</li> </ul>

Accessories for ProxRunner are available at [www.baracoda.com](http://www.baracoda.com)

Copyright © PRO ACTIVE SAS 2008

Information in this document is subject to change without notice. Reproduction without written permission of PRO ACTIVE is forbidden. PRO ACTIVE and the PRO ACTIVE logo are registered trademarks of PRO ACTIVE SAS. All other trademarks are property of their respective owners.

<b>PRELIMINARY DRAFT</b> EVERYTHING SUBJECT TO CHANGE !!!		<b>TECHNICAL DATASHEET</b>		Page 1/2
	<b>Pro Active</b> Parc Gutenberg 13 voie La Cardon 91120 Palaiseau France	Phone : +33 1 64 53 20 10 Fax : +33 1 64 53 20 18 e-mail : <a href="mailto:info@pro-active.fr">info@pro-active.fr</a> website : <a href="http://www.pro-active.fr">www.pro-active.fr</a>	S.A.S. au capital de 227 000 € R.C.S. EVRY B 429 665 482 N.A.F. 722 C VAT # : FR 27 429 665 482	

**BLUETOOTH CONTACTLESS READER****SPECIFICATIONS – CONTACTLESS & RFID**

<b>Contactless &amp; RFID interface</b>	
Standards	ISO/IEC 14443 A and B, T=CL
	ISO/IEC 15693
	ISO/IEC 18000-3
RFID carrier	13.56 MHz
Operating distance	1 to 5 cm depending on card and environment
Card baud rate	ISO 14443 : 106 kbit/s ISO 15693 : 26 kbit/s

<b>Supported "proximity" cards, labels and tags</b>
<ul style="list-style-type: none"> <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>▪ ASK CTS256/CTS512</li> <li>▪ Innovision Jewel tags</li> <li>▪ Calypso (CD97, CD21, GTML...)<sup>1</sup></li> </ul>
And virtually any ISO 14443 A or B compliant card

<sup>1</sup> Calypso card operation is subject to an extra license fee

<b>Supported "vicinity" cards, labels and tags</b>
<ul style="list-style-type: none"> <li>▪ NXP (Philips) ICODE</li> <li>▪ Texas Intrument TagIT</li> </ul>
And virtually any ISO 15693 compliant label

**SPECIFICATIONS – BLUETOOTH AND HARDWARE**

<b>Bluetooth</b>	
Standards	Bluetooth® 1.2 Gap & SPP profiles
Range	Class 1 : up to 100m

<b>Operating modes</b>	
Connected	Real-time transmission to host
Batch mode	Stores up to 10 000 idents with timestamp

<b>Power</b>	
Rechargeable battery	1 x 2000 mAh Li-ion
Charger	5V, 500mA
Typical autonomy	More than 30 000 scans

<b>Hardware specifications</b>	
Trigger button	Power on, connect and scan functions
Status indicator	2 tricolor LEDs (red, orange, green) Buzzer (85dBA)
Color	Grey body + black inserts
Dimensions (LxWxH)	121 x 41 x 32 mm
Weight	≈ 150 g


<b>Environment and safety</b>	
Operating temperature	0 → +40°C
Storage temperature	-10 → +60°C
Durability	1 000 000 trigger cycles
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS, FCC pending

Copyright © PRO ACTIVE SAS 2008

Information in this document is subject to change without notice. Reproduction without written permission of PRO ACTIVE is forbidden. PRO ACTIVE and the PRO ACTIVE logo are registered trademarks of PRO ACTIVE SAS. All other trademarks are property of their respective owners.

**PRELIMINARY DRAFT**  
EVERYTHING SUBJECT TO CHANGE !!!**TECHNICAL DATASHEET**

Page 2/2

	<b>Pro Active</b> Parc Gutenberg 13 voie La Cardon 91120 Palaiseau France	Phone : +33 1 64 53 20 10 Fax : +33 1 64 53 20 18 e-mail : <a href="mailto:info@pro-active.fr">info@pro-active.fr</a> website : <a href="http://www.pro-active.fr">www.pro-active.fr</a>	S.A.S. au capital de 227 000 € R.C.S. EVRY B 429 665 482 N.A.F. 722 C VAT # : FR 27 429 665 482
--	---	---	--