

CONTACTLESS SMARTCARD READER

Pro-Active **Prox'N'Roll** is a versatile smartcard reader/writer for PC. With an attractive look and funny colors, Pro-Active **Prox'N'Roll** is an affordable device for high volume deployment (loyalty, micro-payment, events and leisure...).

In PC/SC mode, **Prox'N'Roll** is compliant with CCID specifications, and brings immediate contactless card support to existing PC/SC applications.

On the other hand, **Prox'N'Roll** legacy is 100% compatible with earlier products from Pro-Active and allows a smooth migration without changing anything in existing software.

ORDER CODES

Part #	Description
PNRU-10	Prox'N'Roll USB <i>Firmware for CCID or legacy mode</i>

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.

Pro-Active has a long experience installing contactless couplers in various kind of devices. Do not hesitate to contact us if you need any assistance.


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 STILL SUBJECT TO CHANGE

TECHNICAL DATASHEET

Page 1/2

	Pro Active 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 : info@pro-active.fr website : www.pro-active.fr	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
--	---	---	--

Prox'N'Roll USB CONTACTLESS SMARTCARD READER

PFTD4F0
09/01/2008
version : AA

SPECIFICATIONS

Contactless smartcard interface	
Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	1 to 5 cm depending on card and environment
Card baud rate	106 kbit/s
Supported cards :	
<ul style="list-style-type: none"> ▪ NXP (Philips) MIFARE Classic & UltraLight ▪ NXP (Philips) DESFIRE, SmartMX, ProX ▪ Infineon SLE66 family ▪ ST MicroElectronics SR, SRI, SRIX families ▪ ASK CTS256/CTS512 ▪ Innovision Jewel tags ▪ Calypso (CD97, CD21, GTML...)¹ 	
And virtually any ISO 14443 A or B compliant card	

¹ Calypso card operation is subject to an extra license fee

USB interface	
Standard	USB 2.0 full speed (12Mbps)
Power supply	Bus powered (≈200mA under 5V)
User-selectable PC/SC or legacy operating mode	

PC/SC mode	
Standard USB CCID profile	
Windows driver	Planned for Q2 2008
Linux driver	Supported by pcsc-lite CCID driver
API and SDK	Full PC/SC – Free SDK available

Legacy mode	
USB virtual serial comm. port API compliant with existing products (CSB4, CSB5, K531,...)	
Drivers	Windows, Windows CE, Linux
API and SDK	SpringProx API SDK sold separately


Hardware specifications	
Status indicator	3 LEDs (red, blue, green) Buzzer (85dBA)
Color	Blue wheels + black body "Pro-Active" labels on both sides ²
Dimensions (LxWxH)	75 x 75 x 25 mm
Housing material	???
Weight	≈ 150 g
USB cable	≈ 1,80 m

Environment and safety	
Operating temperature	0 → +50°C
Storage temperature	-40 → +85°C
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

² Customer specific label is possible

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 STILL SUBJECT TO CHANGE		TECHNICAL DATASHEET		Page 2/2
	Pro Active 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 : info@pro-active.fr website : www.pro-active.fr	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	