

SPRINGPROXBIO-RC RUGGED CONTACTLESS SMARTCARD READER WITH FINGERPRINT MODULE



Built over the popular Sagem MorphoSmart CBM fingerprint scanner and processing engine, SpringProxBio-RC puts together a contactless card reader/writer with biometric authentication and identification features. SpringProxBio-RC targets TDS Recon rugged handheld computers, running Windows Mobile.

KEY FEATURES

Contactless smartcards are increasingly present in today's daily life, and are no longer limited to corporate offices.

With a focus on design and ease of use, **SpringProxBio-RC** is totally adapted to hostile environments and greater than ever needs of authentications.

SUPPORTED CONTACTLESS SMARTCARDS

SpringProxBio-RC is compliant with ISO/IEC 14443 A/B. Supported smartcards include :

- NXP (formerly Philips Semiconductors): Mifare Classic and UltraLight, Desfire, ProX, SmartMX,
- MultOS or JavaCard T=CL cards,
- ICAO e-passports and other ID or travel cards,
- Calypso transportation cards,
- NFC mobile phones or other NFC-capable objects (tag emulation mode)

A FEW TYPICAL APPLICATIONS

- Airport or highest-security level building : on-the-field control of credentials and fingerprints (either private access control card or TWIC smartcard),
- Verification of electronic travel documents, driving licences, ID cards...,
- Authentication of handheld owner before VPN connection or access to restricted data,
- Fingerprint-based electronic «signature»,
- Ticket validation,
- Transportation cardholder authentication,
- And more

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, EUROPE
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

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TECHNICAL SPECIFICATIONS

Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	up to 5 cm depending on card and on environment
Card baud rate	106, 212 or 424 kbps
Supported cards (partial list) : NXP (Philips) MIFARE Classic & UltraLight NXP (Philips) DESFIRE, SmartMX, ProX Infineon SLE66 family ST MicroElectronics SR, SRI, SRIX families ASK CTS256/CTS512 Calypso (CD97, CD21, GTML, etc) ¹ And virtually any ISO 14443 A or B compliant smartcard	

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

SAGEM MorphoSmart CBM

Fingerprint sensor	500dpi, 8 bits - 14mm x 22mm active area
Biometric features	1:1, 1:2 and 1:N search Verification time < 0.8s Identification time < 1s Tunable False Acceptance Rate
Internal database	1000 fingerprint templates
Interface	9600bps pass-through interface in SpringProx main communication stream
API and SDK	Compatible with SAGEM Morpho Host Interface protocol

Compact Flash interface

Standard	Compact Flash type I
Power supply	Powered by the handheld (≈450mA under 3V) 5V tolerant
Drivers	Seen as a Plug'N'Play serial port Uses standard driver from Windows CE / Mobile
API and SDK	SpringProx API - Free SDK available

Hardware specifications

Dimensions (LxWxH)	80 x 60 x 35 mm (approx)
Housing material	ABS + PC
Weight	≈ 150g (not including the handheld)

Environment and safety

Operating temperature	0 → +50°C
Storage temperature	-40 → +85°C
MTBF	500 000 hours
Durability	SIM/SAM slots : 5 000 insertions
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

Integration

SpringProx-RC has been designed for the **TDS RECON** handheld
For more information, visit
www.tdsway.com

ORDER CODE

PART #	Description
SPB-RC01	SpringProxBio-RC: ISO14443/A/B reader/writer with fingerprint module.

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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

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