

SPRINGWAP

RUGGED CONTACT & CONTACTLESS SMARTCARD READER



SpringWAP is a multi-interface smartcard reader dedicated to Psion Teklogix Workabout Pro (G2) handheld. Featuring 2 SIM/SAM slots, 1 ISO smartcard slot, and a 13.56MHz contactless interface, SpringWAP is the perfect device for high-demanding mobile applications of smartcards and RFID.

KEY FEATURES

SpringWAP contactless interface allows complete read-write access to any ISO/IEC 14443 smartcards, including ICAO e-passports, Calypso, as well as popular Mifare products.

The ISO 7816 slot of **SpringWAP** works with T=0 and T=1 contact smartcards, and the 2 internal μ SIM slots may accommodate 3V or 5V SAM for any application with an high security concern.

As the first USB contactless reader for Psion Workabout Pro, **SpringWAP** is faster and easier to integrate than existing products.

A FEW TYPICAL APPLICATIONS

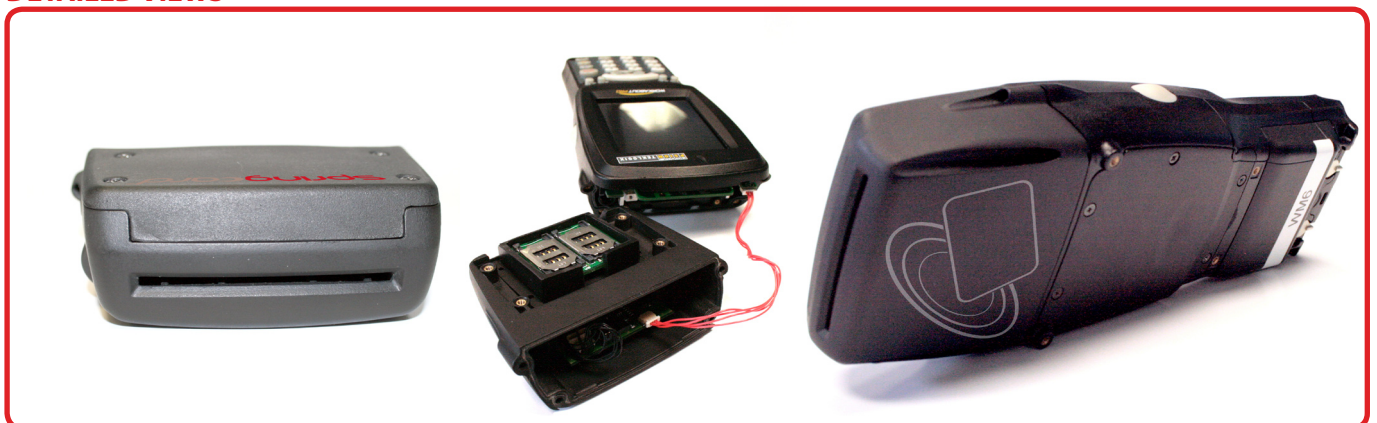
- Transportation (control, check-in, issuing),
- Micro-payment or loyalty programs,
- Government, border control,
- And more

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.

DETAILED VIEWS



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

A PRO ACTIVE BRAND

**Pro
Active**

SPRINGWAP RUGGED CONTACT & CONTACTLESS SMARTCARD READER



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, 424 or 848 kbit/s
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) And virtually any ISO 14443 A or B compliant smartcard	

Contact smartcard interface (main slot)

Standards	ISO/IEC 7816, T=0 and T=1
Format	ID-1 (ISO smartcard)
Card clock	3.6864 or 7.3728 MHz
Card power supply	3V or 5V (classes A and B) with autodetection
Card baud rate	Up to 115200 bit/s
Other features	Card presence detection Short circuit and thermal protection ESD protection 4kV (human body model)

2 x µSIM/SAM smartcard interfaces

Standards	ISO/IEC 7816, T=0 and T=1
Format	ID-000 (µSIM)
Card clock	3.6864 MHz
Card power supply	3V or 5V (classes A and B) jumper for selection
Card baud rate	Up to 115200 bit/s
Remark	SAM slots are protected into dry area

USB interface

Standard	USB 2.0 (12Mbps) - also supports 1.1
Power supply	Powered by the handheld (5V) ≈120mA with RF field OFF ≈280mA with RF field ON + consumption of the smartcard(s)
Drivers	Immediately available for Windows CE 5.0 Other OS build : contact us
API and SDK	SpringProx API, compliant with existing products (CSB4, SpringProx-CF, SpringProx-RC, etc) SpringProx SDK sold separately

Hardware specifications

Dimensions (LxWxH)	75 x 75 x 25 mm (approx)
Housing material	ABS + PC
Weight	≈ 150g (not including the handheld)
IP	IP65

Environment and safety

Operating temperature	-20 → +80°C
Storage temperature	-40 → +85°C
MTBF	500 000 hours
Durability	Main slot : 50 000 card insertions SIM/SAM : 5 000 insertions
CE mark	EN50082 / EN55022 class B'
Other standards	RoHS

*Safety: EN60950: 2001 ; EN 50364 : 2001, EMC:EN 301 489-03 v1.4.1 ; EN 301 489-01 v1.6.1, Spectrum:EN 300 330-2 : v1.1.1

Integration

SpringWAP has been designed for the
Psion Teklogix Workabout Pro G2 (S and C versions)
For more information, visit www.psionteklogix.com

ORDER CODES

PART #	Description
SWAP-02	SpringWAP ultimate contactless, contact, 2 SIM/SAM with housing

Information in this document is subject to change without notice.

Copyright © PRO ACTIVE SAS 2008, all rights reserved.
Reproduction without written permission of PRO ACTIVE is forbidden.
SPRINGCARD, PRO ACTIVE, and both logos are registered trademarks of PRO ACTIVE SAS.
All other trademarks are property of their respective owners.

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

A PRO ACTIVE BRAND
**PRO
Active**