

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 and ISO/IEC 15693 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



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TECHNICAL SPECIFICATIONS

Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15963
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 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)

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
Smartcard class	A and A/B (3.3V or 5V cards) Automatically detected
Card baud rate	Up to 115200 bps
Other features	Card presence detection Short circuit and thermal protection ESD protection 4kW (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
Smartcard class	A and A/B (3V or 5V cards), jumper for selection
Card baud rate	Up to 115200 bps
Remark	µSIM/SAM slots are kept protected in a 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) Free SpringProx SDK available

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 µSIM/SAM : 5 000 insertions
CE mark	EN50082 / EN55022 class B ¹
Other standards	RoHS

¹Safety: 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
SWAP02	SpringWAP ultimate with housing contactless, contact, 2 SIM/SAM with housing

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PRO ACTIVE company with a capital of 227 000 €

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