

## 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  $\mu$ 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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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 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 $\mu$ SIM/SAM smartcard interfaces

Standards	ISO/IEC 7816, T=0 and T=1
Format	ID-000 ( $\mu$ SIM)
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	$\mu$ SIM/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) $\approx$ 120mA with RF field OFF $\approx$ 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	$\approx$ 150g (not including the handheld)
IP	IP65

#### Environment and safety

Operating temperature	-20 $\rightarrow$ +80°C
Storage temperature	-40 $\rightarrow$ +85°C
MTBF	500 000 hours
Durability	Main slot : 50 000 card insertions $\mu$ 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](http://www.psionteklogix.com)

#### ORDER CODES

PART #	Description
SWAP02	SpringWAP ultimate with housing contactless, contact, 2 SIM/SAM with housing

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