

SPRINGWAP

A SPRINGCARD 2008 DEVICE



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SPRINGWAP: PICK AND CHOOSE

- Rugged RFID and smartcard reader for Psion Teklogix Workabout Pro G2.
- Since the SpringWAP is in legacy mode, it's 100% compliant with earlier products and applications from Pro Active.



1 contact
smartcard
reader/writer

2 μ SAM
Couplers

1 biometric
Finger print
reader

1 contactless
13.56 MHz
reader/Writer



Complete
security suite
for
authentication
or card
issuance



SOFTWARE



CONTACTLESS SMARTCARD INTERFACE



RFID & contactless smartcard interface	
Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 and 18000-3 (on demand)
RFID carrier	13.56 MHz
Operating distance	Up to 5 cm depending on card and environment
Card baud rate	14443 : 106, 212, 424 or 848 kbit/s 15693 : 26 kbit/s
Supported cards :	
▪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, etc)] ▪NFC mobile phones	
And virtually any ISO 14443 A or B compliant card	

- The contactless interface operates at up to 5 cm.
- The interface supports many card types including Mifare, DESfire and Calypso.



CONTACT SMARTCARD INTERFACE

- The contact smartcard interface can work with both A and AB classes

Contact smartcard interface	
Card format	ID-1 (full size)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard class	A and AB (3V or 5V cards)
Clock frequency	3,6864 or 7,3728 MHz
Card baud rate	Up to 115200 bps
Other features	Card presence detection Short circuit and thermal protection ESD protection 4kV human body model



USB INTERFACE



- **SpringWAP** provides USB 1.1 interface
- **SpringWAP** operates RFID & smartcard functions at optimal speed due to such USB interface
- Keeps handheld's CompactFlash and scanner ports free for other peripherals

USB interface	
Standard	USB 1.1(12Mbps)
Power supply	Bus-powered (≈300mA under 5V)
USB profile	Virtual serial communication port
Available driver	Windows CE 5.0
API and SDK	SpringProx API SDK sold separately



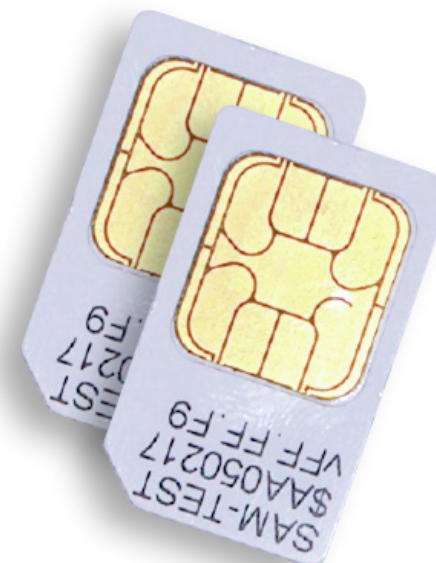
SIM/SAM

- 2 SIM/SAM slots accepting A and AB smartcards is suitable to secure or authenticate contact or contactless transactions.



PSION TEKLOGIX
information in motion

SIM/SAM interfaces	
Card format	ID-000 (μSIM)
Number of slots	2 (accessible after opening the device)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard class	A and AB (3V or 5V cards)
Clock frequency	3,6864 or 7,3728 MHz
Card baud rate	Up to 115200 bps



SIM/SAM



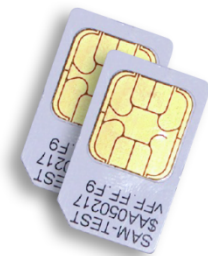
- SAM: Secure Authentication Module
- Used in banking (every ATM has a SAM for crypto operations)

SAM cards
handle all
crypto using
hardware
crypto
machines

Store & manage keys securely

Encrypt/decrypt and sign data

Secure back-office communication



HARDWARE



HARDWARE SPECIFICATIONS

- The device weights 110g (SpringWAP only / 560g with the PDA)



Main data

Operating	Up to 5 cm (depending on the card)
Springwap-PDA connection	JST connector ref SM04B-SRSS-TB(LF)(SN)
PDA plugged	USB type B DC/DC 5V 3A connector
Color	Black
Dimensions (LxWxH)	253 x 94 x 41
Housing material	ABS+PC
Weight	110g

Consumption

	No smartcard, supplied SAM	3 smartcards (50 mA per card)
Radio Frequency OFF	140mA	-
Radio Frequency ON	300mA	450mA



ENVIRONMENT AND SAFETY



Environment and safety	
Operating temperature	-10 → +50°C
Storage temperature	-40 → +85°C
Durability	50 000 card insertions 5 000 SIM/SAM insertions
MTBF	500 000 hours
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

APPLICATIONS



PC/SC MODE



Some examples of applications:

Reading/encoding contact and contactless cards

- Generates and reads individualized tags or cards for mobile access control
- Generates and reads badges or ID cards as a temporary or permanent identification credential to individuals displaced in a disaster area

Membership subscription

- Reads personal identification and authentication (biometric option) loyalty programs and VIP access authorization from anywhere

Ticketing, payments

- Allowing train ticket collectors aboard the train or on the platform, to check and sell tickets, verify availability of seats, check reservations, update loyalty programs, etc.



Applications for events, fairs

- Monitor attendants
- Identify attendees
- Supports questionnaires/surveys to be completed on the spot
- Allows to quantify the success of the event



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