

SPRINGCARD-CF

COMPACT FLASH SMARTCARD READER + μ SIM/SAM SLOT



SpringCard's SpringCard-CF is a compact-Flash smartcard reader suitable for PocketPC PDAs.

SpringCard-CF is the perfect framework to build any PocketPC application that embeds smartcard technologies.

KEY FEATURES

Directly powered by the Pocket PC, SpringCard-CF is the only smartcard compact-flash reader of the market.

Its design has been established to fit on any pocket PC with standard CF interface.

According to Gemcore chipset, SpringCard-CF is compliant with all microprocessor and memory smartcards.

A FEW TYPICAL APPLICATIONS

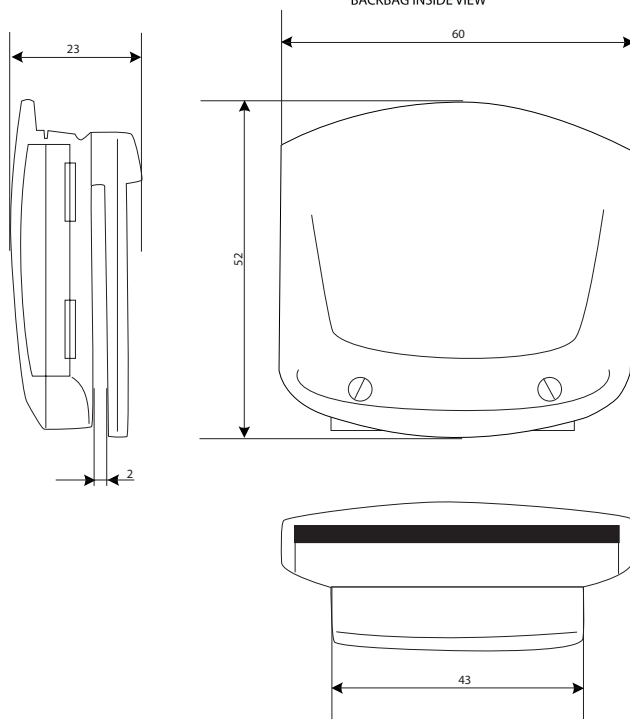
- Hand-terminal for any smartcard system
- Virtual wallet
- Access control tags programming
- Authentication and cryptographic systems

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.

MECHANICAL SPECIFICATIONS



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A PRO ACTIVE BRAND
Pro Active

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TECHNICAL SPECIFICATIONS

Contact smartcard interface

Card format	ID-1 (full size)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard power	A and A/B (5V and 3.3V cards), max 80mA
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

μSIM / SAM interface (SC-CF06 only)

Card format	ID-000 (μSIM)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard class	A and A/B (5V and 3.3V cards)
Clock frequency	3,6864 MHz
Card baud rate	Up to 115200 bps

CompactFlash interface

Standard	SpringProx-CF : CompactFlash type I SpringProx-CFUP : CompactFlash type II
Power supply	Powered by the handheld (3.3V - 5V tolerant) ≈10mA + consumption of the smartcard
Drivers	Seen as a Plug'N'Play serial port Uses standard driver from Windows CE / Mobile
API and SDK	SpringCard API (« PC/SC like ») Free SDK available

Hardware specifications

Housing Material	ABS-PP
Dimensions (LxWxH)	23 /30 x 60 x 52 mm
Weight	≈ 30g
Color	Anthracite grey

Environment and safety

Operating temperature	0 → +70°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, FCC pending

ORDER CODES

PART #	Description
SC-CF05	SpringCard-CF basic
SC-CF06	SpringCard-CF with μSIM/SAM slot embedded

PRECAUTIONS FOR INSTALLATION

This device is a contactless reader; it uses inductive coupling (magnetic field) to power the cards and communicate with them. Precaution must be taken to keep the reader far from any source of perturbation (e.g. other readers, computers...). Installing the reader near a metal surface (aluminium or steel plate...) will lead to shorter operating distance and increased power consumption. SpringCard has a long experience installing contactless couplers in various kind of devices. Do not hesitate to contact us if you need any assistance.

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