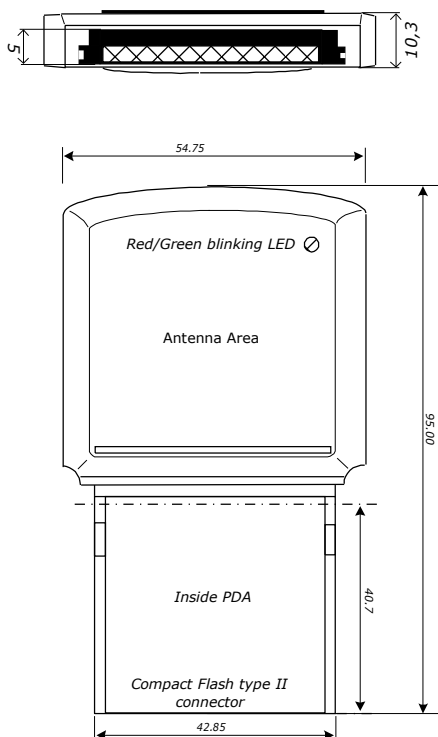


ISO/IEC 14443 COMPACT FLASH CONTACTLESS READER/WRITER

SpringProx-CF-UP is a contactless reader / writer usable in any handheld computer (PDA) with a CompactFlash type II slot.

SpringProx-CF-UP reads and writes Philips MIFARE leading products, as well as any T=CL compliant tag or card from any other manufacturer.

Detailed views**SpringProx-CF-UP highlights****Contactless interface**

- Compliance : ISO/IEC 14443 (A & B, 1, 2, 3 and 4),
- T=CL protocol embedded in coupler's firmware (256-byte frames),
- Work with any ISO/IEC 14443 A or B smartcard (Philips DESFire, ProX, SmartMX, Infineon SLE66, STMicroelectronics ST19, ...),
- Read / write Philips MIFARE Classic and UltraLight cards or tags ; CRYPTO1 cipher unit with secure key storage (MfRC531 chipset),
- Other cards support (Calypso, Jewel, SR176, ...) on request,
- 13.56MHz RFID transmission, 106kpbs to 424kbps baudrate,
- Integrated antenna ; card operating distance : 0 to 4cm.

PocketPC integration

- CompactFlash type II, usable with most handhelds terminals,
- 3V power supply provided by the PocketPC itself,
- Supported OS : Windows CE 3.0 (PocketPC 2002), Windows CE 4.20 (PocketPC 2003, Windows Mobile 2003), Windows CE 5 (Windows Mobile 2005),
- Plug & Play operation under Windows CE (SpringProx-CF-UP is seen as a serial communication port),
- Unified SpringProx API, available in the developer's kit (**SpringProx PocketPC SDK**).

ORDER CODES

SP-CFUP	Spring Prox CF-UP contactless ISO/IEC 14443 A/B 1,2,3 & 4 reader / writer for PDA with compactflash type II connector.
SDK-SPCFUP	Developer's kit for SpringProx-CFUP

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TECHNICAL DATASHEET

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Pro Active
Parc Gutenberg
13 voie La Cardon
91120 Palaiseau
France

Phone : +33 1 64 53 20 10
Fax : +33 1 64 53 20 18
e-mail : info@pro-active.fr
website : www.pro-active.fr

S.A.S. capital of 227 000 €
R.C.S. EVRY B 429 665 485
A.P.E. 722 Z
VAT # : FR 27 429 665 482 00015

ISO/IEC 14443 COMPACT FLASH CONTACTLESS READER/WRITER**SPECIFICATIONS**

ISO compliance	ISO/IEC 14443-A/B 1, 2, 3 & 4	Temperature range	Operation : 0°C → +45°C Storage : -10°C → +55°C
RFID operating frequency	13.56 MHz	Housing	ABS-PP
Card reading distance	5 cm typ., min 0 cm, max 4 cm <i>depends on card characteristics</i>	Color	Black
Supported cards	Philips MIFARE Classic & UltraLight Philips DESFIRE, SmartMX, MIFARE ProX Infineon SLE66, STMicroelectronics ST19 ...	Weight	30g
		Dimensions H x L x E	95 x 54.75 x 10.3 (mm)
		CE mark	EN50082 / EN55022 class B
Power supply	3,3volts, self powered by the CF slot.		
Consumption	In idle mode: 10mA During RF operation : <= 190mA (depends of the card)		

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Pro Active
Parc Gutenberg
13 voie La Cardon
91120 Palaiseau
France

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Fax : +33 1 64 53 20 18
e-mail : info@pro-active.fr
website : www.pro-active.fr

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