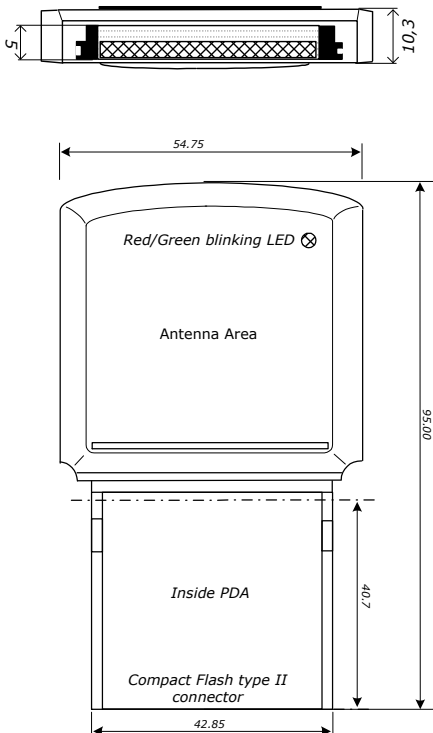


**ISO/IEC 14443 COMPACT FLASH CONTACTLESS READER/WRITER**

**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-CFUP 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 card supports (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**

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

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**TECHNICAL DATASHEET**

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

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

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