

**springcard®**

## **CSB4.6**

Desktop RFID-contactless card  
reader/writer

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# CSB4.6

CSB4.6 is a desktop RFID-contactless card reader/writer.  
It a flexible product for both integrators and end-users.

## EFFICIENT

- Operates with any credential form factor : electronical documents, cards, tokens, **any NFC-enabled objects** (thanks to tag emulation mode)...
- Offers improved RFID performance and lower power requirements while remaining compliant with our earlier generation products

## FAST AND EASY-TO-USE

- Operates under any operating systems
- Embeds T=CL protocol for **fast transactions**
- CSB4.6 USB version comes with an USB driver for Windows® and is directly powered by the USB interface

## TYPICAL APPLICATIONS

- **Fast and easy** cashless payments, loyalty programs
- **Fast access control** in transportation, event venues
- **Strong and secured authentication**: electronical documents, digital signature, premises access

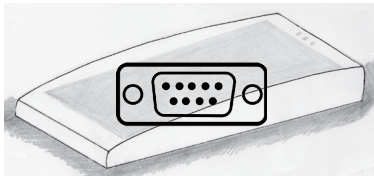
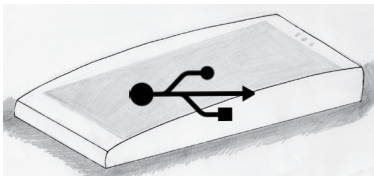
## TECHNICAL FEATURES

- ISO/IEC 14443 (A&B) and ISO 15693 standards-compliant
- T=CL protocol supported onboard
- Supports the whole NXP family: MIFARE Classic & UltraLight, DESFire, SmartMX, ProX

## Versions and order codes

- **SC14175: CSB4.6U** USB desktop contactless reader/writer
- **SC14176: CSB4.6S** serial desktop contactless reader/writer

# Technical data

	CSB4.6S	CSB4.6U
		
<b>RFID/NFC Standards</b>	ISO 14443 A-B, ISO 15693, NFC peer-to-peer (ISO 18092 initiator, passive communication mode)	
Carrier frequency	13.56MHz (RFID HF, NFC)	
RF field level	Typ.: 3A/m at 0.5cm	
Operating distance	Typ.: 0-4cm, up to 8cm (depends on card/tag)	
Card/tag baudrate	26kbps (ISO 15693), 106/212/424/848kbps (ISO 14443)	
<b>Communication with host</b>		
Standards	Serial (RS-232)	USB Virtual Comm Port (FTDI)
Card/tag baudrate	Serial communication - Baudrate 38400 or 115200bps	
Cable / connector	1.8m - DB9 plug	1.8m - USB type A plug
Drivers	None required	FTDI driver for Windows®, Mac®, Linux and most Unix
SDK	Free SDK for SpringCard K663 and 'legacy' couplers	
In-field firmware upgrade	yes	
<b>Visual</b>	3 LEDs (RYG)	
<b>Power</b>	12V DC 250 mA (power block supplied)	Powered by the USB bus (5V DC)
<b>Size (WxHxD) - weight</b>	146x92x20mm - ca 250g	
<b>Environment</b>		
Temperature	Operating: -20°C – +70°C / Storage: -40°C – +80°C	
Humidity	0 – 90% (non condensing)	
MTBF	500 000 hours	
<b>Approvals</b>	Radio : EN 300 330 - EMC : EN 301 489 - CE mark	
Environmental	RoHS, WEEE	
<b>Warranty</b>	2 years	

## YOUR EXPERT IN SMARTCARDS, RFID AND NFC

SpringCard offers a wide range of products to meet as many as possible of needs and use cases.

With a 15-year experience in contactless smartcards, communication technologies and development on embedded or mobile systems, SpringCard R&D Team is also a valuable partner to design your own solution or product.

Paris – Angers – San Diego – Tokyo – Sydney



[www.springcard.com](http://www.springcard.com)



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