

CSB6 USB ALL-IN-ONE CONTACT + CONTACTLESS SMARTCARD READER



CSB6 is an USB contactless ISO 14443 (A&B) and Mifare reader/writer. CSB6 also features a smartcard coupler (ISO 7816) and 3 internal micro SIM/SAM slots.

KEY FEATURES

SpringCard CSB6 is a highly integrated smartcard reader for PC, featuring in a single classy desktop housing as many as

- 1 traditional contact smart card reader/writer,
- 3 μ SIM/SAM couplers,
- SpringCard's versatile contactless reader/writer.

PC/SC SMARTCARD READERS

SpringCard CSB6 is PC/SC compliant, and brings immediate contactless card support to existing PC/SC applications (the whole product is seen as 5 PC/SC readers : 1 contactless, and 4 contact).

On the other hand, CSB6 may be configured for legacy, and is in this case 100% compatible with earlier products from SpringCard (CSB4, K531...). This allows a smooth migration without changing anything in existing software.

A FEW TYPICAL APPLICATIONS

- Card personalisation and issuing
- Secure login or strong authentication
- e-banking & e-commerce

SUPPORTED CONTACTLESS SMARTCARDS

CSB6 is compliant with ISO/IEC 14443 (A and B) standards. List of supported chips includes :

- NXP (Philips) : Mifare Classic and UltraLight, Desfire, ProX, SmartMX,
- ST MicroElectronics : SR176, SRiX...
- ASK CTS256B and CTS512B,
- MultOS or JavaCard T=CL cards,
- Calypso transportation cards,
- NFC mobile phones or other NFC-capable objects (tag emulation mode)

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 has been created to distribute Pro Active's contact and contactless products worldwide, under a single brand name.

HEADQUARTERS, EUROPE SPRINGCARD

13 voie la Cardon
Parc Gutenberg
91120 Palaiseau
FRANCE

Phone : +33 (0) 164 53 20 10
sales@springcard.com

AMERICAS SPRINGCARD

96161 El Cajon Blvd
Suite B, PMB 437
San Diego, CA 92115
USA

Phone : +1 (713) 261 6746
sales-usa@springcard.com

www.springcard.com

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CSB6 USB ALL-IN-ONE CONTACT + CONTACTLESS SMARTCARD READER



TECHNICAL SPECIFICATIONS

Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	up to 8 cm depending on card and on environment
Card baud rate	106, 212, 424 or 848 kbit/s

Supported cards (partial list) :

- NXP (Philips) Mifare Classic & UltraLight
- NXP (Philips) Desfire, SmartMX, ProX
- Infineon SLE66 family
- ST MicroElectronics SR, SRI, SRIX families
- Innovision Jewel tags
- ASK CTS256/CTS512
- Calypso (CD97, CD21, GTML...)¹

And virtually any ISO/IEC 14443 A or B compliant card

¹ Calypso card operation is subject to an extra license fee. Contact us for information.

Contact smartcard interface

Card format	ID-1 (full size)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard power	5V or 3V (class A and AB), 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

SIM / SAM interfaces

Card format	ID-000 (µSIM)
Number of slots	3 (2 inside + 1 accessible without opening the device)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard power	5V or 3V (class A and AB)
Clock frequency	3,6864 MHz
Card baud rate	Up to 115200 bps

Hardware specifications²

Status indicator	3 LEDs (red, yellow, green)
Dimensions (LxWxH)	146 x 93 x 22 mm
Housing Material	ABS-94HB (self extinguishing UL94)
Weight	≈ 250g
USB cable	≈ 1,80 m

² Note that CSB6 board may be sold without housing, for OEM integration

USB interface

Standard	USB 2.0 full speed (12Mbps)
Power supply	Bus powered (≈300mA under 5V)

Default configuration is PC/SC

PC /SC mode

Standard USB CCID profile	
Windows driver	2000/XP/Vista
Linux driver	Supported by PCSC-lite CCID driver
API and SDK	Full PS/SC - Free SDK available

Legacy mode

USB virtual serial comm. port API compliant with existing products (SpringProx-CF, CSB4, CSB5, K531,...)	
Drivers	Windows, Linux
API and SDK	SpringProx API SDK sold separately

Environment and safety

Operating temperature	0 → +70°C
Storage temperature	-40 → +85°C
Durability	500 000 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
CSB6U-41	CSB Ultimate USB cable not provided

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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PRO ACTIVE company with a capital of 227 000 €
R.C.S. EVRY B 429 665 482
N.A.F. 722 C
VAT # : FR 27 429 665 482
France

www.springcard.com

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