

ALL-IN-ONE CONTACT+CONTACTLESS SMARTCARD READER

Pro-Active **CSB6 USB** 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,
- ✓ Pro-Active's versatile contactless reader/writer.

In PC/SC mode, **CSB6** is compliant with CCID specifications, and brings immediate contactless card support to existing PC/SC applications.

On the other hand, **CSB6** legacy is 100% compatible with earlier products from Pro-Active and allows a smooth migration without changing anything in existing software.

The 3 μ SIM/SAM couplers of **CSB6** are suitable to secure or authenticate contact or contactless transactions.

ORDER CODES

Part #	Contactless	Contact + 3 μ SIM/SAM	2 μ SIM/SAM only
CSB6U-40	■	■	
CSB6U-30	■		■
CSB6U-10	■		

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. Pro-Active 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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TECHNICAL DATASHEET

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S.A.S. au capital de 227 000 €
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ALL-IN-ONE CONTACT+CONTACTLESS SMARTCARD READER**SPECIFICATIONS**

Contactless smartcard interface	
Standards	ISO/IEC 14443 A and B, T=CL
RFID carrier	13.56 MHz
Operating distance	1 to 8 cm depending on card and environment
Card baud rate	106, 212, 424 or 848 kbit/s
Supported cards :	
<ul style="list-style-type: none"> ▪ NXP (Philips) MIFARE Classic & UltraLight ▪ NXP (Philips) DESFIRE, SmartMX, ProX ▪ Infineon SLE66 family ▪ ST MicroElectronics SR, SRI, SRIX families ▪ ASK CTS256/CTS512 ▪ Innovision Jewel tags ▪ Calypso (CD97, CD21, GTML...)¹ 	
And virtually any ISO 14443 A or B compliant card	

¹ Calypso card operation is subject to an extra license fee

Contact smartcard interface	
Card format	ID-1 (full size)
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard class	A and AB (3V or 5V cards)
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 class	A and AB (3V or 5V cards)
Clock frequency	3,6864 or 7,3728 MHz
Card baud rate	Up to 115200 bps

USB interface	
Standard	USB 2.0 full speed (12Mbps)
Power supply	Bus powered (≈300mA under 5V)
User-selectable PC/SC or legacy operating mode	

PC/SC mode	
Standard USB CCID profile	
Windows driver	Planned for Q2 2008
Linux driver	Supported by pccsc-lite CCID driver
API and SDK	Full PC/SC – Free SDK available

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

Hardware specifications²	
Status indicator	3 LEDs (red, yellow, green)
Color	Black Blue "14443" label on top ³
Dimensions (LxWxH)	146 x 93 x 22 mm
Housing material	ABS-94HB (self extinguishing UL94)
Weight	≈ 250 g
USB cable	≈ 1,80 m

Environment and safety	
Operating temperature	0 → +50°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

² Note that CSB6 board may be sold without housing, for OEM integration³ Customer specific label is possible**TECHNICAL DATASHEET**

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