

EASYFINGER

ALL-IN-ONE CONTACT + CONTACTLESS SMARTCARD READER/WRITER WITH FINGERPRINT SCANNER



EasyFinger is a contactless ISO 14443 (A&B) and Mifare reader/writer, featuring SAGEM MorphoSmart CBM fingerprint reader for biometric authentication or identification.

EasyFinger also integrates a contact smartcard reader/writer, and 2 internal micro SIM/SAM slots

KEY FEATURES

SpringCard EasyFinger puts all together; in an unique and attractive design, a complete security suite for biometric authentication or smartcard issuance :

- A versatile contactless reader/writer
- A classical contact smart card reader/writer,
- 2 μ SIM/SAM slots
- SAGEM MorphoSmart CBM fingerprint sensor

EasyFinger's integrated biometric sensor is ideal for a broad range of enrolment, authentication and identification applications.

The 2 μ SIM/SAM slots of EasyFinger are suitable to secure or authenticate contact or contactless transactions.

Thanks to its PC/SC compliance, EasyFinger brings immediate contactless card support to existing PC/SC applications under major operating systems.

A FEW TYPICAL APPLICATIONS

- Strong biometric authentication
- E-documents (passport, driving license...)
- Electronic vote
- E-commerce and e-banking

SUPPORTED CONTACTLESS SMARTCARDS

EasyFinger is compliant with ISO/IEC 14443 (A and B) standard. 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, EUROPA SPRINGCARD

13 voie la Cardon
Parc Gutenberg
91120 Palaiseau
FRANCE

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

AMERICAS SPRINGCARD

6161 El Cajon Blvd
Suite B, PMB 437
San Diego, CA 92115
USA

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

www.springcard.com

A PRO ACTIVE BRAND

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Active**

EASYFINGER

ALL-IN-ONE CONTACT + CONTACTLESS SMARTCARD
READER/WRITER WITH FINGERPRINT SCANNER



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
- ASK CTS256/CTS512
- Calypso (CD97, CD21, GTML...)¹

And virtually any ISO/IEC 14443 A or B compliant smartcard.

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 class	A and A/B (5V and 3.3V 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

μSIM/SAM interface

Card format	ID-000 (μSIM)
Number of slots	2
Standards	ISO/IEC 7816, T=0 & T=1
Smartcard class	A and A/B (5V and 3.3V cards)
Clock frequency	3,6864 MHz
Card baud rate	Up to 115200 bps

Hardware specifications

Status indicator	1 Dual-color LED (red, green)
Power requirement	7.5 to 12V DC, 1000mA International power adaptor provided
Dimensions (LxWxH)	146 x 93 x 22 mm
Weight	≈ 300g

TECHNICAL SPECIFICATIONS

SAGEM MorphoSmart CBM

Fingerprint sensor	500dpi, 8 bits - 14mm x 22mm active area
Biometric features	1:1, 1:2 and 1:N search Verification time < 0.8s Identification time < 1s Tunable False Acceptance Rate
Internal database	1000 fingerprint templates
USB interface	2.0 full speed
Windows driver	2000/XP/Vista
API and SDK	Compatible with SAGEM MorphoSmart SDK and Morpho Host Interface protocol BIOAPI compliant software suite

USB PC/SC interface

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

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

ORDER CODES

PART #	Fingerprints	Contactless	Contact	2 μSIM/SAM
CSB-HY80	■	■	■	■
CSB-HY60	■	■	■	■

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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