



springcard®

YOUR EXPERT IN CONTACTLESS SOLUTIONS

Make your contactless project become a success

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# 01. Our company

A RANGE OF NFC/RFID  
READY-TO-USE PRODUCTS



TAILORED-MADE  
COMMUNICATING  
SOLUTIONS



SOLUTIONS  
TO MAKE DEVELOPERS,  
PROJECT OWNER  
AND USERS'  
EVERYDAY LIFE SIMPLIER



A COMPLETE NFC/RFID RANGE  
FOR INDUSTRIALS

## SPRINGCARD STRONG POINTS

### MEETING THE NEEDS OF MOBILITY

SpringCard pays much attention to the users experience. Our products and solutions take on board the need of a simple everyday life.

### MEETING THE NEEDS OF SECURITY

SpringCard's engineers are attentive to scientific breakthroughs. Security has been at the heart of SpringCard's activities since the beginning. At SpringCard, security is not an option: it is included in all of our solutions. That is why our products and solutions are so well adapted to future challenges.

### CONTROLLING THE ENERGY CONSUMPTION

The use of bike-share services or the design of electric cars leads to new expectations concerning the autonomy of a device with battery.

SpringCard's range of products constantly welcome new readers and coupling devices that are able to stay in standby mode until a card or any NFC object comes into its detection field.

# 02. A part of our story



First building access control units based on embedded Linux



Sagem Morpho integrates a module K531 in biometric terminals used by *Aéroports de Paris*

SpringCard creates a branch in San Diego (US)  
 JCDecaux orders 30 000 K531 modules related to *Vélib* project in Paris



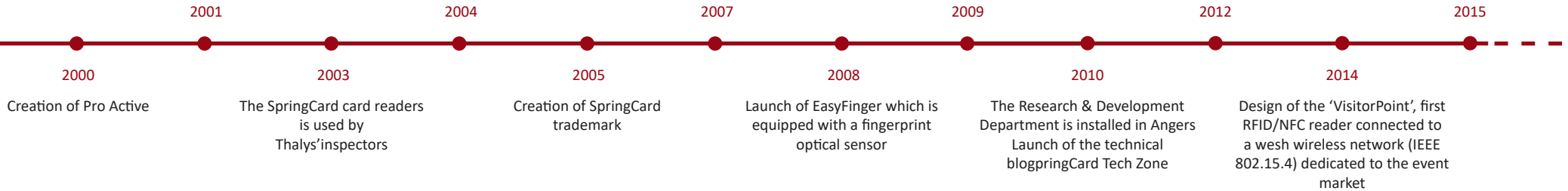
Launch of the ProxRunner, RFID Bluetooth reader, in partnership with Baracoda (Ingenico)



Partnership with Evolis is confirmed: the CrazyWriter fits all its card printers

Pro Active SAS becomes SpringCard SAS

SpringCard extends its scope of expertise by integrating Bluetooth Low Energy technology to its new range of products named 'SpringBlue'



# 03. Our solutions

Whoever you are: a startup entrepreneur, a developer, a project manager, a contactless solution purchaser, an institute member...

## SPRINGCARD IS YOUR PARTNER

One of our core strengths is an insight that offers opportunities for additional value in contactless market.

### AGILITY.

Contactless projects are complex and can't be carried out following one straight line. SpringCard's process is then agile. That is why our people are proactive, flexible and always looking for chances to improve their skills and performance at work.

SpringCard is really the proper partner to bring to successful fruition the best ideas.

### HIGH-QUALITY GUIDANCE.

16 years of in the field experience in 13.56MHz systems  
+ Strong expertise in the development of buried systems (most embedded Linux)  
+ Design of complete architectures around smart cards & smart objects  
+ Security of all transactions to ensure both the authenticity and the confidentiality of the exchange  
+ In the frontline of portable implementations for Android, iOS and Windows

### CONFIDENTIALITY AND LOYALTY.

Thanks to our respect of professional confidentiality, we count major companies among our customers. New technologies are sensitive: innovative ideas should be protected and sometimes it is important to be the first one to create a service. Whatever the project is, our employees are dedicated, hard working and discrete.

Confidence and loyalty are key words in the relationships we build with our suppliers and our subcontractors. Our partnerships focus on closeness and long-term collaborations. This approach guarantees the quality of supply and facilitate continuous improvements.

### EXPERTISE FIELDS.

- High-frequency RFID (13,56Mhz), NFC (Near Field Communication), contactless and contact smart cards, Internet Protocol, Bluetooth Low Energy, WiFi
- Networks, Internet of things, Strong Identification, Transactions Security
- Access Control, Micro-payment, Sharing Services, Public Transports, Loyalty and Marketing Services, Products Traceability...





# 04. Our products

SpringCard designs as well ready-to-use devices as core modules for integration (OEM). Our portfolio also includes antennas.

## BRINGING YOU ALL YOU NEED

Today the use of the Cloud spreads, people every day improve their lives with mobile technology, and ensuring compliance with laws or industrial standards is more and more complex: Data protection and privacy are crucial and interoperability is essential. SpringCard's engineers design products that fit today's world.

Even as authentication methods continue evolving, and security levels grow, the implementation of the related solutions should stay simple. Our technologies are useful, user-friendly, and have the lowest ecological impact, while remaining sold at the best cost.



## THE STRONG POINTS OF OUR PRODUCTS



Simple to use



For a fast development



For lean and scalable projects



Match your needs

## MODULAR PRODUCTS

Our products are modular: that means that a shared platform is the base of a products family. As scalable and interoperable products, they all enable fast development for our clients. The compatibility of our new products with previous ones is important to us. So when we announce the end of life for some of them, the new ones have increased or updated specifications but same size and interface.

## MEETING MOBILITY USES AND CONTROLLING ENERGY CONSUMPTION

SpringCard has developed a range of products dedicated to smartphones and tablets. Smart technology is just around the corner for a multitude of uses and SpringCard aims to support you through these new, exciting developments.

Sharing's caring! The increase of bike and car sharing services has led to new requirements regarding battery-life. This interest in minimising energy consumption is highly important both to us and our clients. This is why SpringCard's range of products includes readers and coupling devices that wake up only when approached by a card or NFC object.

## WHAT IS THE DIFFERENCE BETWEEN A SMART READER AND A COUPLING DEVICE?

A smart reader interacts with the card or the NFC object according to a processing logic designed in advance.

A coupling device conveys orders from an application or from a host system and thus widens the field of the uses.

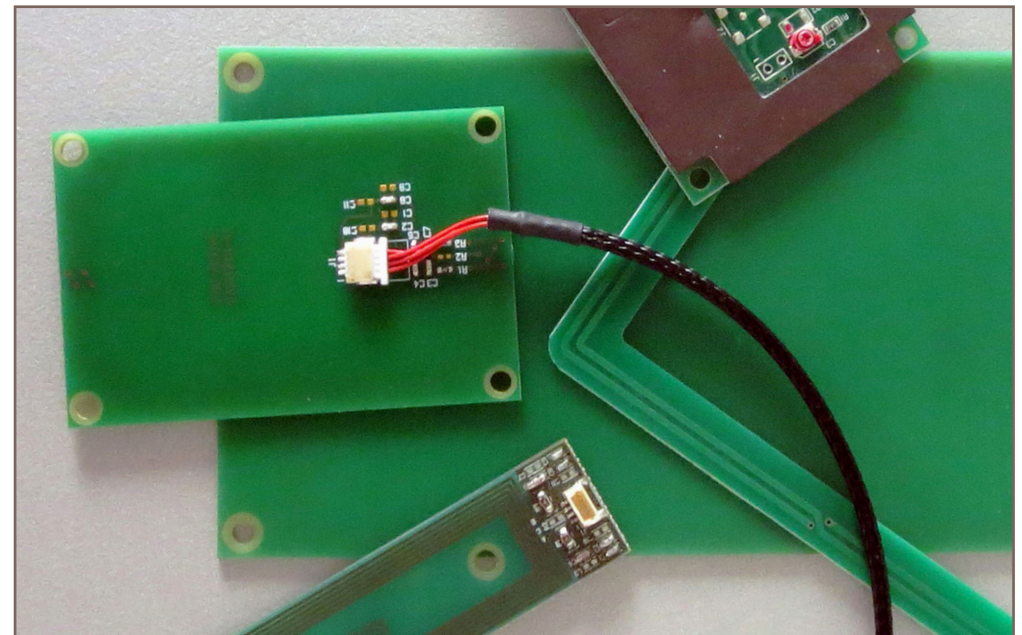
If the simplicity of use requirements or the implementation constraints often hide the difference between these types of product, their logic is different.

Fortunately, whatever you need, SpringCard offers readers and coupling devices. We help you choose the most fitted solution to your project.

## FLEXIBLE PRODUCTS

In order to adapt flexibly to a huge variety of use cases, they are configurable to a large extent. But your project may be specific for logical reasons or physical constraints and it supposes to customize our off the shelf products.

Whatever your project needs, SpringCard Team will listen to you, and produce finely-adapted hardware or firmware. The flexible architecture of our products combined to and the responsiveness of our engineers make possible to offer you a customized solution in a timely manner and at a very competitive price.



# 04. OEM Coupling devices




Products designed and made in France

Platform name
Communication with host
Communication protocol


Module alone



Module on antenna



Module on mother board + remote antenna




(twisted pair cable)  
No smartcard

(twisted pair cable)  
1 SIM/SAM slot

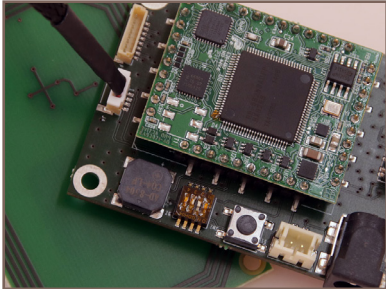
( $\mu$  coax cable)  
1 SIM/SAM slot,  
expandable

OEM to integrate for industrial applications (69x45mm boards)



COUPLING DEVICES			
K663	S663	H663	E663
SERIAL		USB	NETWORK
SpringProx or PC/SC over Serial	SpringProx or PC/SC over Serial	PC/SC	
K663A*		H663A*	
K663S*		H663S*	
K663-TTL			
K663-232		H663-USB	
K663-485			
TwistyWriter-TTL			TwistyWriter-IP PC/SC
TwistyWriter-232			
TwistyWriter-485			
		TwistyWriter HSP	
		CrazyWriter HSP	







COUPLING DEVICES WITH CARD EMULATION	
H512	CSB6.5
USB	
PC/SC	
H512S*	
H512-USB	



\* The letter A means that the module is designed to run with an asymmetric antenna  
The letter S means that the module is designed to run with a symmetric antenna



# 04. Ready-to-use Coupling devices

 Products designed and made in France		COUPLING DEVICES				COUPLING DEVICES WITH CARD EMULATION	
		Platform name	K663	S663	H663	E663	H512
Communication with host		SERIAL		USB	NETWORK	USB	
Communication protocol		SpringProx or PC/SC over Serial	SpringProx or PC/SC over Serial	PC/SC		PC/SC	
Module alone		K663A*		H663A*			
		K663S*		H663S*		H512S*	
Desktop devices 	Contactless only	CSB4.U (série émulation USB)		Prox'N'Roll HSP PC/SC		NFC'Roll	
	Contactless + ID-1 + 3 SIM/SAM slots			CSB HSP Ultimate			
Devices for automotive 		Prox'N'Drive					
Devices for access control 	FunkyGate shell	FunkyGate-DW PC/SC		FunkyGate-IP PC/SC FunkyGate-IP+POE PC/SC			
Misc (OEM not industrial, legacy...)	Contactless only	CSB4.S (série)		Prox'N'Roll HSP PC/SC OEM			

\* The letter A means that the module is designed to run with an asymmetric antenna  
 The letter S means that the module is designed to run with a symmetric antenna

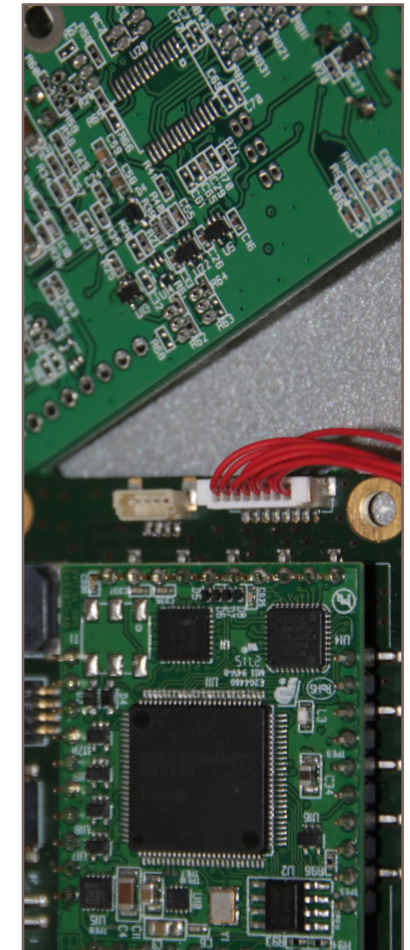
# 04. OEM Smart readers



Products designed and made in France

		SMART READERS			
Platform name		K663/RDR	S663/RDR	H663/RDR	E663/RDR
Communication with host		SERIAL		USB	NETWORK
Communication protocol		RDR Mk1 or Mk2		Keyboard emulation	RDR Mk2 or HTTP
Module alone 		K663A/RDR*		H663A/RDR*	
		K663S/RDR*		H663S/RDR*	
Module on antenna 		K663/RDR-TTL			
		K663/RDR-232		H663/RDR-USB	
		K663/RDR-485			
Module on mother board + remote antenna 	(twisted pair cable) No smartcard	TwistyWriter/RDR-TTL			TwistyWriter-IP NFC
		TwistyWriter/RDR-232			
		TwistyWriter/RDR-485			
	(twisted pair cable) 1 SIM/SAM slot			TwistyWriter/RDR HSP	
	(μ coax cable) 1 SIM/SAM slot, expandable				

OEM to integrate for industrial applications (69x45mm boards)



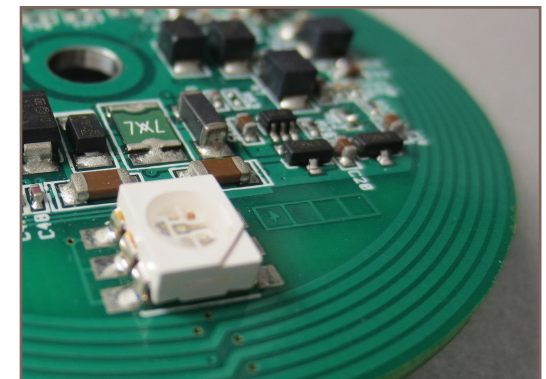
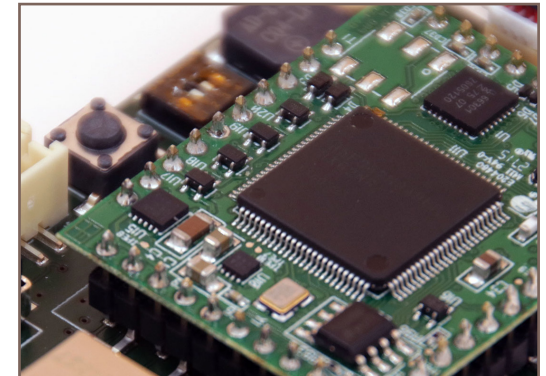
\* The letter A means that the module is designed to run with an asymmetric antenna  
The letter S means that the module is designed to run with a symmetric antenna

# 04. Ready-to-use Smart readers



Products designed and made in France

		SMART READERS			
	Platform name	K663/RDR	S663/RDR	H663/RDR	E663/RDR
	Communication with host	SERIAL		USB	NETWORK
	Communication protocol	RDR Mk1 or Mk2		Keyboard emulation	RDR Mk2 or HTTP
	Module alone	K663A/RDR*		H663A/RDR*	
		K663S/RDR*		H663S/RDR*	
Desktop devices 	Contactless only			Prox'N'Roll HSP RFID Scanner	
	Contactless + ID-1 + 3 SIM/SAM slots				
Devices for automotive 		Prox'N'Drive/RDR			
Devices for access control 	FunkyGate shell		FunkyGate-DW NFC		Funkygate-IP NFC FunkyGate-IP+POE NFC
Misc (OEM not industrial, legacy...)	Contactless only			Prox'N'Roll HSP RFID Scanner OEM	



\* The letter A means that the module is designed to run with an asymmetric antenna  
The letter S means that the module is designed to run with a symmetric antenna

# 05. Working with SpringCard

## OUR VALUES



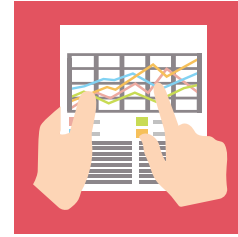
Designing and making reliable devices we are proud of



Being honest and sincere in everything we do



Thinking long-term



Guiding our clients to increase their performances

## A FEW OF OUR CLIENTS





We believe that our technologies should be understood by the largest number of people. That is why we regularly write content on our website about the general outline of our technologies, giving clarification about standardization and any other information to enable a better understanding of the contactless technology. Our engineers are also regular contributors on our technical website called 'techzone': <http://tech.springcard.com>

## SUPPORTING OUR CLIENTS

SpringCard is attentive to give the best to our clients. We then create specific tools to make their job simpler or to give them support in a easier way. See here two examples.

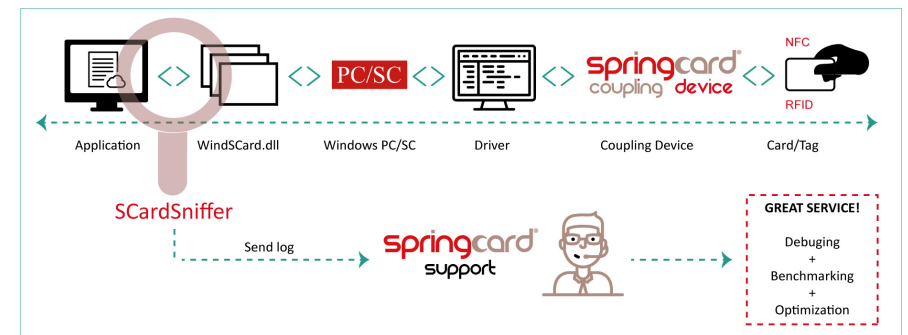
### SpringField Colorado Application.

This App runs on Android smartphones which have a NFC interface and supporting Host Card Emulation (HCE) mode. It enables to catch information concerning an OEM burried in a machine in the blink of an eye.



### SCardSniffer.

SCardSniffer aims at spying the exchanges between your application and WindSCard.dll.



Our technologies are used in everyday life, helping smooth daily relationships between people and devices, creating better services for people and providing safety and reliability to customers' and partners' projects. Our solutions provide social and technical evolution.

So if you need a helping hand, we invite you to discuss your ideas with us, to see how we can help your project become real or better.

Send an email to [info@springcard.com](mailto:info@springcard.com)  
or call us: +33 (0) 164 53 21 10

And visit our website  
[www.springcard.com](http://www.springcard.com)

# springcard®

SPRINGCARD - FRANCE  
(Headquarters)  
2, voie la Cardon  
Parc Gutenberg  
91 120 Palaiseau  
FRANCE  
Phone : +33 (0) 164 53 20 10

SPRINGCARD - FRANCE  
(Research & Development)  
Bâtiment 1  
Centre d'Activités La Garde  
Allée du 9 novembre 1989  
49 240 Avrillé  
FRANCE  
Phone : +33 (0) 241 32 38 61

SPRINGCARD - US  
6161 El Cajon Blvd  
Suite B, PMB 437  
San Diego, CA 92115  
USA  
Phone : +1 (713) 261 6746

