

## IWM-K632-SU

WALL-MOUNTED CONTACTLESS DEVICE



IWM-K632-SU is an highly customizable wall-mount contactless reader. It virtually reads any kind of ISO/IEC 14443 proximity cards, and ISO/IEC 15693 vicinity tags or transponders. Thanks to its wide choice of output interfaces, IWM-K632 can be integrated in any existing or new access-control system.

### KEY FEATURES

**Interoperability :** IWM-K632 is not only able to read serial numbers from virtually any 13.56MHz contactless card but it is also able to fetch particular data from Mifare or advanced T=CL cards.

**Evolutivity :** IWM-K632 configuration is made of 4 different sets, thus allowing different kind of cards to be used in the same time on the site. .

**Security :** IWM-K632 is able to communicate with NXP DESFire, to verify a numeric signature and to diversicate authentication keys for top-of-art security level.

### A FEW TYPICAL APPLICATIONS

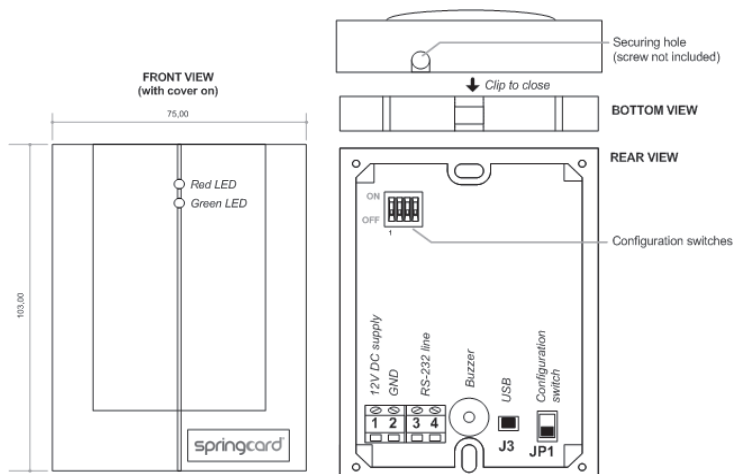
- high secured buildings access controll
- cash or vending machines

### 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** distributes **Pro Active's** contact and contactless products worldwide, under a single brand name.

### DETAILED VIEWS



### PIN Assignments

	RS-232	USB
1	12 V power supply	Unconnected
2	GND	Unconnected
3	TX (reader to host)	Unconnected
4	RX (host to reader)	Unconnected
J3	Unconnected	USB (to host)t

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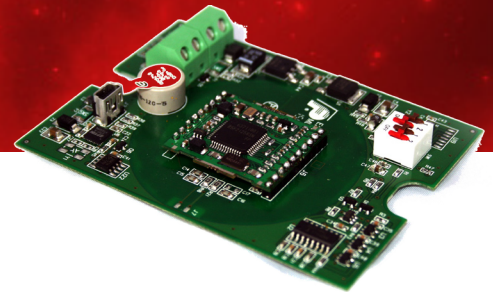
[www.springcard.com](http://www.springcard.com)

A PRO ACTIVE BRAND

**Pro Active**

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### TECHNICAL SPECIFICATIONS

#### Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 and 18000-3
RFID carrier	13.56 MHz
Operating distance	up to 6 cm depending on card and on environment
Card baud rate	106 kbit/s (14443) 26 kbit/s (15693)
Supported cards (partial list) :	
<ul style="list-style-type: none"> <li>▪ NXP (Philips) ICODE1, ICODE-SLI, ...</li> <li>▪ Texas Instrument TagIT</li> <li>▪ NXP (Philips) MIFARE Classic &amp; UltraLight</li> <li>▪ NXP (Philips) DESFIRE, SmartMX, ProX</li> <li>▪ Infineon SLE66 family</li> <li>▪ ST MicroElectronics SR, SRI, SRIX families</li> <li>▪ HID iClass, Inside PicoTag</li> <li>▪ ASK CTS256/CTS512</li> <li>▪ Calypso (CD97, CD21, GTML...)<sup>1</sup></li> </ul>	
And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label	

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

#### Hardware specifications

Dimensions (LxWxH)	103 x 75 x 23 mm (approx)
Housing material	ABS-94HB + PC
Color	Black
Weight	≈ 180g

#### Environment and safety

Operating temperature	-20 → +80°C
Storage temperature	-40 → +85°C
MTBF	500 000 hours
CE mark	EN50082 / EN55022 class B
Other standards	RoHS

#### RS232 mode<sup>2</sup>

3-wire RS-232 serial communication RX/TX at +12/-12V	
Distance to computer	max 3m
Baud rate	1200, 2400, 4800, 9600, 19200, 38400 or 115200 bps
Output format	Hexadecimal string, 4 to 16 bytes (8 to 32 chars)
LEDs and buzzer	Driven by short commands
Power requirement	12V DC - linear supply recommended
Consumption	80mA average - 250mA peak

#### USB mode<sup>2</sup>

USB1.1 virtual serial communication port	
Connector	Type B connector at the back of the reader
Distance to computer	max 2.5m
Power supply	Bus powered ( ≈250mA under 5V)
Drivers	Windows, Windows CE, Linux
Output format, LEDs and buzzer	Same as RS-232 mode

<sup>2</sup> Output format, baud rates and related transmission options are fully configurable through serial or USB connection, or using master cards

### ORDER CODES

PART #	Description
IK632SU	IWM-K632-SU wall mounted contactless reader RS232/USB

#### 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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