

## FUNKYGATE-SU

WALL-MOUNTED RFID & CONTACTLESS READER



FunkyGate contactless reader is the new generation reader for highly secured access control systems. Key points are **security**, **interoperability** and **evolutivity**.

### KEY FEATURES

**Security** : FunkyGate is able to communicate with NXP DESFire, to verify a numeric signature and to diversicate authentication keys for top-of-art security levels. FunkyGate is equipped with an anti-tamper facility : 2 magnet sensors positioned respectively on the reader's back-face and front-face prevent removal or opening.

**Interoperability** : FunkyGate is able to read serial numbers from virtually any 13.56 MHz contactless card. It is also able to fetch particular data from Mifare or advanced T=CL cards. Thanks to its fully configurable output format, FunkyGate can integrate any access-control system.

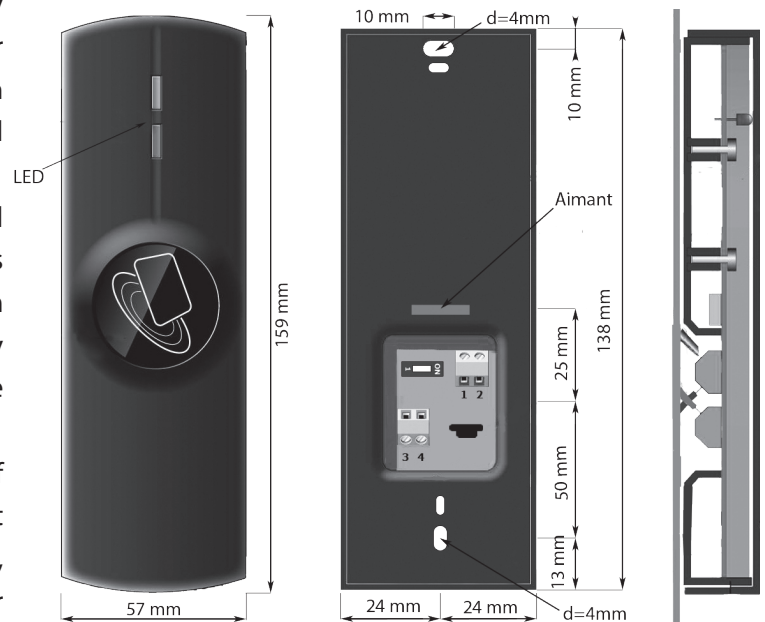
**Evolutivity** : FunkyGate runs 4 different sets of configuration simultaneously. This allows different kinds of cards to be used at the same time on the site, making it possible to rotate authentication keys for improved security or to change users'cards smoothly.

### SPRINGCARD

Proudly designed and manufactured in France, SpringCard products are distributed worldwide. With 12 years experience and millions of users, Springcard is your expert in RFID and NFC solutions.

### FEW TYPICAL APPLICATIONS

- High secured buildings access controll,
- Cash or vending machine.



PIN Assignements

	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)

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## FUNKYGATE-SU

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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 kps (ISO 14443) 26 kbps (ISO 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...)</li> </ul> And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label

#### Hardware specifications

Dimensions (LxWxH)	159 x 57 x 29 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

#### Security and configuration

Field configuration through master cards or by the communication line	
Anti-tamper facility	2 magnet sensors: - on the back-side to stop removing - on the front-side to stop opening

#### RS232 mode<sup>1</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
Output format	Hexadecimal string, 4 to 16 bytes (8 to 32 chars)
LEDs and buzzer	Driven by short commands
External Power	9V - 26V DC

#### USB mode<sup>1</sup>

USB1.1 virtual serial communication port	
Connector	Type B connector at the back of the reader
Distance to computer	max 2.5m
Drivers	Windows, Windows CE, Linux

<sup>1</sup> Output format, baud rates and related transmission options are fully configurable through serial or USB connection, or using master cards

#### Power supply

mode	RS232		USB
power supply	external, 9V	external, 12V	USB
Minimum Consumption	16mA	n/a	30mA
Average Consumption	33mA	80mA	50mA
Maximum Consumption	100mA	160mA	175mA

### ORDER CODES

PART #	Description
IWMX-10-SU	FunkyGate-SU wall mounted contactless reader RS232/USB

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#### 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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