

springcard®



Crazy UHF USB UHF USB reader

Crazy UHF USB

UHF USB reader

The Crazy UHF USB has an integrated antenna with a practical reach of 10cm to 1m.

The integration of the Crazy UHF USB to your project will be helped by SpringCard Companion which will allow you to set up quickly and easily your device.

The Crazy UHF USB is an open product, a toolkit that we offer to let you discover the UHF technology and the infinite applications in which it can be useful.

This new UHF USB product operates on a carrier frequency of 868 MHz (in Europe) and 910 MHz (in the US). The tag will send its identification informations to the reader.

TYPICAL APPLICATIONS

- Hand free badges for access control (ex: Ski data passes feig reader)
- Content inventory (bags, boxes containing less than 100 components)
- Interactive personal shopping (advices based on the bag content)
- Enhancement of security (protection against theft)

KEY FEATURES

- USB communication with host
- Possibility to choose between one integrated antenna and an external one or two external antennas

PRELIMINARY

Crazy UHF USB

UHF USB reader schemes

The following table introduces you the main pinouts of the Crazy UHF USB along with their characteristics and functions.

The Crazy UHF USB can be powered through USB (3.3V to 5V).

Name	Function	Characteristics / Reference
J6	Power / Communication with host	USB / JST (BM05B-SRSS-TB (LF)(SN))
U25-U28	Antenna	Coax cable / U.FL-R-SMT-1(10)
P1	Debug	SM08B-SRSS-TB(LF)(SN)
LED	State indicator*	Always ON

*** LED signification:**

LED4: RF Power ON/OFF

LED1, 2 & 3: When ON your Crazy UHF USB is operational

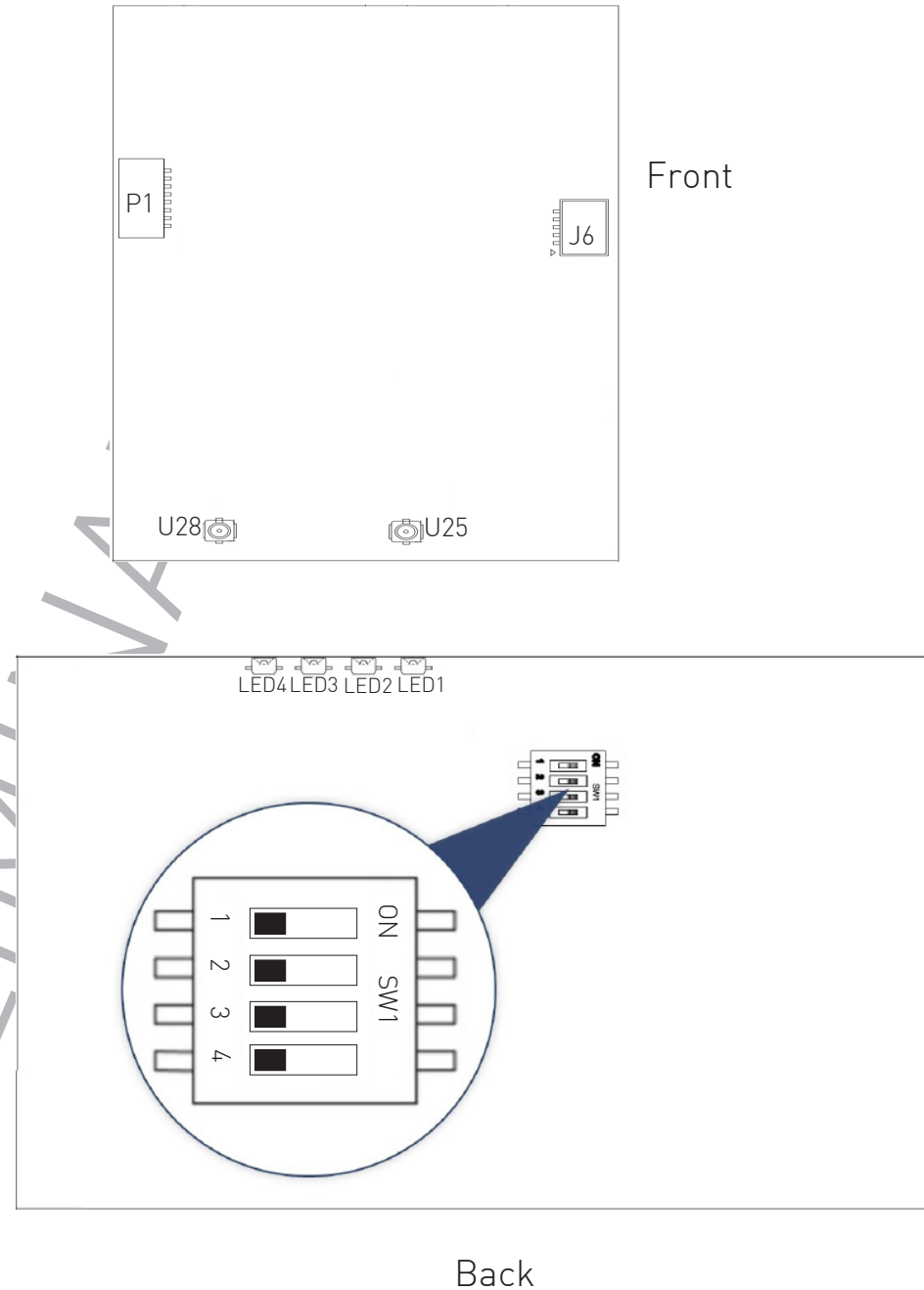
Switches signification:

Switch1: ON/Flash via J6

Switch2: ON/Flash via P1

Switch3: Antenna selector (optional)

Switch4: Not used



Crazy UHF USB

UHF USB reader accessories

The asymmetric antenna

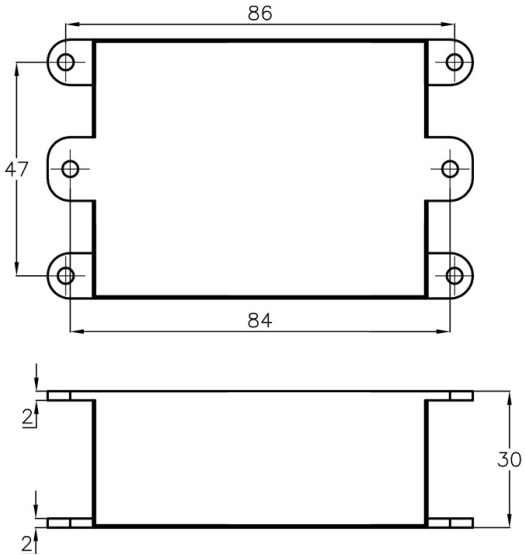
This antenna without housing is 108mmx108mm. With housing the size of the antenna is 134mm x125mm.

It allows you to read badges and RFID UHF tags, from 10cm up to 1m.



The SpringBox I

We designed this box to accommodate all SpringCard 69x45mm boards and antennas. It can be cut, drilled, machined in a customised way.



PRELIMINARY

Technical specifications

	Crazy UHF USB
RFID UHF Protocols	EPC Global UHF Class 1 Gen 2 / ISO18000-6C
Carrier frequency	868MHz (EU) - 960 MHz (US) (RFID UHF)
RF power level	Typ: -19 Dbm to 2 Dbm
Operating distance	Typical 10cm up to 1m (depends on the tag)
Card/tag baudrate	-
Communication with host	USB
SDK	SpringCard Companion
In-field firmware upgrade	No physical action on the device using SpringCard Companion application
Visual	4 LEDs and buzzer
Power	3.3V up to 5V DC
Size (LxH) - weight	69x45mm - Weight: 34g / Antenna size: 108x108mm (without housing)
Cable / connector	Coax cable between antenna and reader
Temperature	Operating Temperature: -20°C + 70°C Storage temperature: -40°C + 85°C
Humidity	90% (without condensing)
MTBF	500 000 hours
Approvals	-
Environmental approvals	RoHS
Warranty	2 years

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SpringCard offers a wide range of products to answer to all our needs and possible uses. With 18 years of experience in contactless smartcards, communication technologies and the development of embedded and mobile systems, the R&D team of SpringCard is a valued partner to design your own solution or product.

Our Locations

Angers - Paris
San Diego - Sydney



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