

TWISTYSCAN

The TwistyScan is the new smart reader of SpringCard. It is composed of the TwistyWriter TTL, 232, 485 and of a 2D reader for barcodes. The TwistyScan is able to read barcodes, NFC tags and RFID labels.

KEY FEATURES

Interoperability : TwistyScan is not only able to read serial numbers from virtually any 13.56 MHz contactless card but it is also able to read any barcode presented in front of it.

All-in-one : TwistyScan is composed of a 2D reader and of the TwistyWriter TTL, 232, 485, allowing different kind of cards to be used at the same time on the TwistyScan.

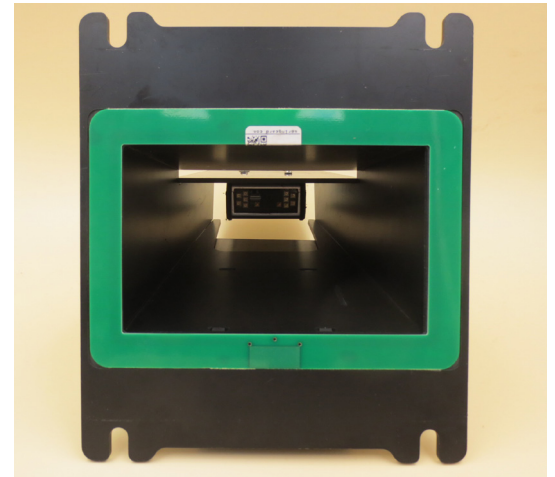
Security : TwistyScan is able to communicate with NXP DESFire, to verify a numeric signature and to identify it for state-of-the-art security level.

A FEW TYPICAL APPLICATIONS

- People and objects identification
- Double identification (Barcode and NFC/RFID tags, labels)

SPRINGCARD

Proudly designed and manufactured in France, SpringCard products are distributed worldwide. With 18 years experience and millions of users, SpringCard is your expert in RFID and NFC solutions.



PIN Assignment	
	RS-232
1	VCC - 12V DC power supply
2	GND - common (0V)
3	RS-232 TX (Reader to host)
4	RS-232 RX (Host to Reader)
5	output collectors with integrated pullups of 560 ohms. 5seconds output pulse to +5V on valid card
6	output collectors with integrated pullups of 560 ohms. 60seconds output pulse to +5V on valid card
7	N/C
8	N/C

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TECHNICAL SPECIFICATIONS

Contactless smartcard interface

Standards	ISO/IEC 14443 A and B, T=CL ISO/IEC 15693 , 18092 and 21481
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"> ▪ ST MicroElectronics SR, SRI, SRIX families ▪ ASK CTS256/CTS512 And virtually any ISO/IEC 14443 A or B compliant smartcard, or ISO/IEC 15693 compliant RFID label

Environment and safety (TwistyWriter TTL, 232, 485)

Operating temperature	-20→+70°C
Storage temperature	-20 →+70°C
Power supply	3 to 5V DC
Consumption	average 130mA (at 12V DC) peak: 250mA (at 12V DC)
MTBF	500 000 hours
CE mark	EN300330-2 V1.6.1 / EN300330-1 V1.8.1 / EN 301489 -1 : V1.9.2 / EN 301489 -3: V1.6.1
Other standards	RoHS

Hardware specifications

Dimensions	110 x 180 x 188 mm (approx)
Housing material	PS (3mm)
Color	Black
Weight	≈ 240g

USB

Baud rate	38400 or 115200bps
Output format	Hexadecimal string, 4 to 16 bytes

ORDER CODES

PART #	Description
SC18153	TwistyScan

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.

SPRINGCARD COMPANY WITH A CAPITAL OF 227 000 €
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