

# NFC SCANNER



**RFID reader and writer**

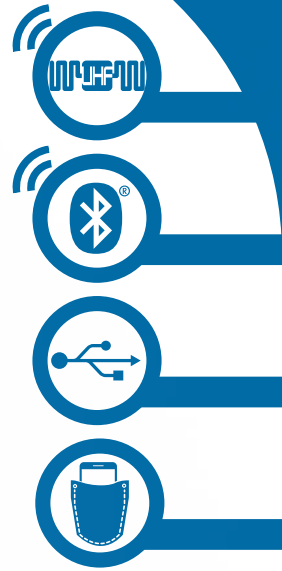
**USB interface - Bluetooth Low Energy 4.1**

**Bidirectional serial emulation profile**

**Automatic ID reading**

**Output ASCII / HEX with prefix and suffix**

**Battery life up to 15000 readings**



NFC Scanner is a mobile mini RFID reader, shaped like a keychain, able to read HF tags and transmitting the acquired data to any device equipped with Bluetooth® Low Energy radio interface.

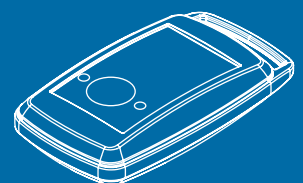
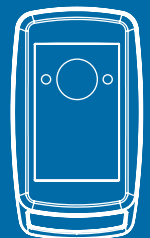
The maximum reading distance is 6 cm.

The use of the RFID reader is easy and intuitive thanks to the presence of a single button to activate the reading of the HF tags, combined with an LED and a multi-tone beeper, to alert the operator of the reading.

NFC Scanner integrates Bluetooth® Low Energy radio technology, specifically it uses the serial emulation profile, a two-way channel. A simple serial communication protocol, available on all TERTIUM Technology products, allows the user to manage all the RFID reader functions, in particular the ID scan and the reading/writing of the HF tag memory. With this profile it is possible, in the development phase, to integrate RFID technology in any application or program for mobile devices with an iOS and Android operating system using this profile.











NFC Scanner is battery powered and charging is carried out via a micro USB connector.

Through the USB port it is possible to connect the NFC Scanner to a PC, so that it can also be used as a normal RFID desktop reader. Data transmission on the USB interface takes place in virtual serial mode, a bidirectional channel (managed through the same serial communication protocol as the Bluetooth® Low Energy interface).



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	<b>MAN/MACHINE INTERFACE</b>	1 function key for RFID read activation, Multitone Beeper, 2 LED for device operation signaling
	<b>INTERNAL DEVICES</b>	Frequency: 13.56 MHz Power: 200 mW Standard: ISO 15693, ISO 14443-A (only reading) Read range: up to 6 cm <b>Embedded antenna</b>
	<b>INTERFACES</b>	Micro USB type B, Bluetooth® Low Energy
	<b>OS COMPATIBILITY</b>	iOS, Android, RIM, Windows Mobile/Phone, Windows, macOS, Linux
	<b>PROCESSOR</b>	Texas Instruments MSP430 (16 bit RISC a 16MHz)
	<b>POWER SUPPLY</b>	<b>USB powered:</b> 230mA peak @ 5Vdc (RF active full power), 30mA @ 5Vdc (idle mode) <b>Battery powered:</b> Li-Poly Battery 3.7Vdc 300mAh, rechargeable via micro USB Battery life 15000 readings, 14 h in idle mode
	<b>WORKING TEMPERATURE</b>	-20°C / 60°C
	<b>DIMENSION</b>	Height 7.7 cm – Width 4.3 cm – Depth 1.7 cm
	<b>WEIGHT</b>	21 g
	<b>PROTECTION DEGREE</b>	IP 54

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