



BLUEBERRY

RFID in your pocket

Blueberry is an RFID reader in a keychain shape able to read an RFID tag (HF or UHF) and send it via Bluetooth to any device with this interface.

BlueBerry was created considering the fact that a person usually has a mobile phone and a set of keys in his or her pockets. From this fact, the idea of creating a device that is easy to use and small, so small that it can become a key ring able to read an RFID tag by pressing a single button, and transmit the data read to a mobile phone or smartphone that is always taken along with us, was born. All high-level operations such as information processing, visual display, forwarding via text message, e-mail or directly on server via GPRS are transferred to the device with which **Blueberry** will interface.

Defining **Blueberry** an RFID reader / writer for mobile phones is limiting. In fact, the device is a simple method to integrate the RFID communication system to any device with Bluetooth interface (PDA, Netbook, Notebook, PC etc.). **Blueberry** is also able to function as a normal table RFID reader by simply connecting to a PC via USB cable.

All these features make **Blueberry** highly functional in many applications.

Workforce Monitoring

One of **Blueberry's** typical applications is the control of the workforce operating with other persons, such as home health care monitoring, maintenance / repairs management at home, the certifications for periodic overhauling of facilities.

Logistics and delivery

It is possible to integrate the RFID reading system to **Blueberry** to control the entire supply chain, allowing in most cases to keep the same hardware infrastructure previously used for that purpose.





TECHNICAL CHARACTERISTICS

MAN/MACHINE INT	1 function key for RFID read activation Speaker 2 LED for device operation signaling
INTERNAL DEVICES	RFID HF reader: frequency: 13,56 MHz power: 200 mW standard: ISO 15693, ISO 14443-A (only reading ID) read range: 2 cm (*) RFID UHF reader: frequency: 860 MHz ÷ 960 MHz power: 50 mW standard: EPC Class1 Gen2 read range: 10-20 cm with TAG far field, 2 cm with TAG near field (*) Embedded antenna
INTERFACES	Micro USB type B Bluetooth
PROCESSOR	Texas Instruments MSP 430 (16 bit RISC a 16MHz)
POWER SUPPLY	High-capacity and long term Li-Ion Batteries (can afford 1000-3000 readings) 5Vdc (operation and recharge of batteries) via micro USB
WORKING TEMPERATURE	-10°C - 70°C
DIMENSIONS	Width 6,8 cm – height 4,2 cm – depth 1,8 cm
WEIGHT	30 g
PROTECTION DEGREE	IP65

(*) depending on the TAG

TERTIUM