

BLUEBERRY UHF

RFID in your pocket



RFID reader and writer

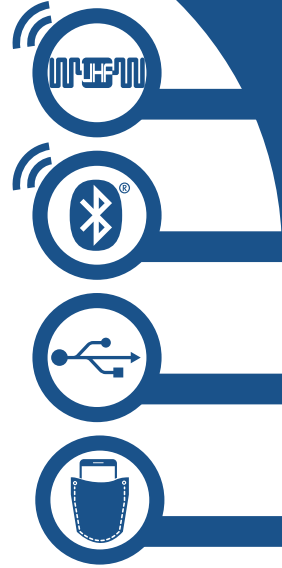
USB interface - Bluetooth 2.1+ EDR

SPP and HID (Keyboard Emulation) profiles

Automatic EPC or EPC + TID reading

Output ASCII / HEX with prefix and suffix

Battery life up to 10000 readings



BlueBerry UHF is an RFID key fob reader capable of reading an UHF RFID tag and transmit it via Bluetooth to any device equipped with that interface.

BlueBerry UHF was created based on the premise that most people usually keep a mobile phone and a set of keys in their pockets. The idea of creating a small, easy-to-use device, the size of a key ring, capable of reading an RFID tag by pressing one single button, and transmit read data to the mobile phone or to the Smartphone we always keep with us started from this premise.

The device has a reading distance of 30 cm with tag far field and 2 cm with tag near field (depending on the used tag).

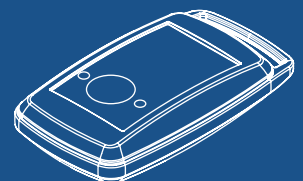
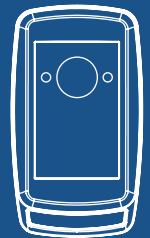
BlueBerry supports both SPP and HID (optional) Bluetooth profiles. The HID profile allows to transfer in keyboard emulation mode the acquired informations to mobile devices equipped with any operative system as iOS (iPad, iPhone, iPod Touch), Android, BlackBerry, Symbian and Windows Mobile, etc...

In the same time BlueBerry is an easy way to integrate the RFID communication system on devices as Netbook, Notebook, PC etc.. that are equipped with operative system as Windows XP, Vista, Windows 7, Linux, Mac OS.

The single communication protocol, integrated in all TERTIUM Technology products, makes it easier to develop and project an application software able to manage all the functionalities of the devices. The configuration software, supplied with the product, allows to set the major functionalities as, for instance, the automatic scanning or the conversion of the read data in ASCII format.

All high-level operations such as information processing, visual display, transmission via text message, e-mail or directly on server via GPRS are devolved to the device BlueBerry will interface with.

Additionally, BlueBerry UHF can operate as a normal table RFID reader by simply connecting it to a PC via a USB cable.



BLUEBERRY UHF



MAN/MACHINE INT

1 function key for RFID read activation, Multitone Beeper, 2 LED for device operation signaling



INTERNAL DEVICES

RFID reader ETSI version: frequency: 865.6 – 867.6 MHz
number of channels: single or 4 hopping channels
channel occupancy: in accordance with ETSI EN 302 208 and ETSI EN 300 328
power: 50 mW
standard: EPC Class1 Gen2
read range: 30 cm with Far Field Tag, 2 cm with Near Field Tag (*)

RFID reader FCC version: frequency: 902.55 – 927.7 MHz
number of channels: 50 hopping channels (compliant to FCC part 15)
channel occupancy: in accordance with FCC part 15
power: 50 mW
standard: EPC Class1 Gen2
read range: 30 cm with Far Field Tag, 2 cm with Near Field Tag (*)

Embedded antenna



INTERFACES

Micro USB type B, Bluetooth Class 2 V2.0 (HID version with Bluetooth Class 2 V2.1+ EDR)



OS COMPATIBILITY

Bluetooth SPP Profile : Windows XP, Windows Vista, Windows 7, Windows Mobile , OSX, Linux, Android, RIM, Symbian

Bluetooth HID Profile ():** iOS, Windows XP, Windows Vista, Windows 7, Windows Mobile , OSX, Linux, Android, RIM, Symbian



PROCESSOR

Texas Instruments MSP430 (16 bit RISC a 16MHz)



POWER SUPPLY

USB powered: 380mA peak @ 5Vdc (RF active full power), 30mA @ 5Vdc (idle mode)

Battery powered: Li-Poly Battery 3.7Vdc 300mAh, rechargeable via micro USB
Battery life 10000 reading, 14 h in idle mode



WORKING TEMPERATURE

-10°C / 70°C



DIMENSION

Width 6.8 cm – Height 4.2 cm – Depth 1.8 cm



WEIGHT

30 g



PROTECTION DEGREE

IP 54

(*) depending on the TAG
(**) available on request