

# BLUEBERRY iS UHF



**RFID reader and writer**

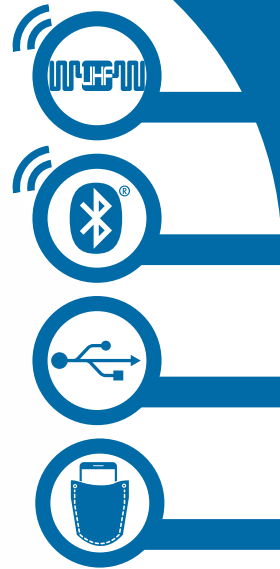
**USB interface - Bluetooth 2.1+ EDR**

**iAP (bidirectional serial for Apple devices)  
and SPP (bidirectional serial) profiles**

**Automatic reading of EPC or EPC + TID  
or other combinations**

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

**Battery life up to 10000 readings**



Made for  
 iPhone | iPad

BlueBerry iS UHF is a mobile mini RFID reader, shaped like a keychain, capable of reading UHF tags and transmitting the acquired data to any device equipped with a Bluetooth® radio interface.

The maximum reading distance of the device is 30 cm with a far field tag and 2 cm with a near field tag.

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

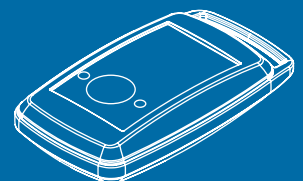
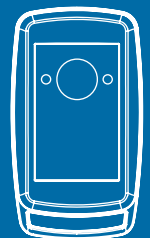
BlueBerry iS UHF integrates Bluetooth® radio technology, specifically it uses the iAP and SPP profiles.

With the SPP profile, data transmission takes place in virtual serial mode, 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 UHF tag memory. It is also possible, in the development phase, to integrate RFID technology into any application or program for mobile devices, desktops or laptops.

The iAP profile is essentially the same as the SPP profile and it is also fully compatible with iPhones® and iPads®.

BlueBerry iS UHF is battery powered and charging is carried out via a micro USB connector.

Through the USB port it is possible to connect the BlueBerry iS UHF 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 SPP interface).



# BLUEBERRY iS UHF



|  |                              |   |
|--|------------------------------|---|
|  | <b>MAN/MACHINE INTERFACE</b> | 1 function key for RFID read activation, Multitone Beeper, 2 LED for device operation signaling   |
|  | <b>INTERNAL DEVICES</b>      | <b>RFID reader ETSI version:</b> frequency: 865.6 – 867.6 MHz<br>number of channels: single or 4 hopping channels<br>Channel occupancy in accordance with: ETSI EN 302 208-2 V1.4.1 and ETSI EN 300 328 V1.8.1<br>power: 50 mW<br>standard: EPC Class1 Gen2<br>read range: up to 30 cm with Far Field Tag, 2 cm with Near Field Tag<br><br><b>RFID reader FCC version:</b> frequency: 902.55 – 927.7 MHz<br>number of channels: 50 hopping channels (compliant to FCC part 15)<br>channel occupancy: in accordance with FCC part 15<br>power: 50 mW<br>standard: EPC Class1 Gen2<br>read range: up to 30 cm with Far Field Tag, 2 cm with Near Field Tag<br><br><b>Embedded antenna</b> |
|  | <b>INTERFACES</b>            | Micro USB tipo B, Bluetooth Class 2 V2.1+ EDR   |
|  | <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> 380mA peak @ 5Vdc (RF active full power), 30mA @ 5Vdc (idle mode)<br><b>Battery powered:</b> Li-Poly Battery 3.7Vdc 300mAh, rechargeable via micro USB<br>Battery life 10000 readings, 14 h in idle mode  |
|  | <b>WORKING TEMPERATURE</b>   | - 20°C / 60°C   |
|  | <b>DIMENSION</b>             | Height 6.8 cm – Width 4.2 cm – Depth 1.8 cm   |
|  | <b>WEIGHT</b>                | 30 g  |
|  | <b>PROTECTION DEGREE</b>     | IP 54   |

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