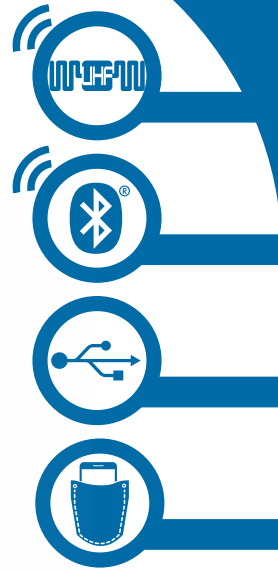# BLUEBERRY HS UHF

RFID reader and writer

USB interface - Bluetooth 2.1+ EDR

HID (keyboard emulation) 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

BlueBerry HS 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 is 30 cm for UHF far field tags and 2 cm for near field UHF tags.

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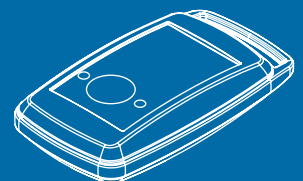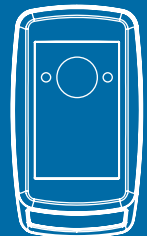
BlueBerry HS UHF integrates Bluetooth® radio technology, specifically it uses the HID and SPP profiles.

With the HID profile the data transmission takes place in keyboard emulation mode, mono-directional channel. This profile supports all major mobile devices, including those equipped with the iOS and Android operating systems. It also supports the main desktop and portable devices, including those with Windows, Linux and macOS operating systems. Thanks to this profile, any application or program that accepts identification data entered from the keyboard can receive the same data transmitted by the BlueBerry HS UHF.

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. With this profile, it is possible, in the development phase, to integrate RFID technology in any application or program for mobile, desktop or laptops.

BlueBerry HS 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 HS HF 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 HS UHF

MAN/MACHINE INTERFACE	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 302 208-2 V1.4.1 and ETSI EN 300 328 V1.8.1 power: 50 mW standard: EPC Class1 Gen2 read range: up to 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: up to 30 cm with Far Field Tag, 2 cm with Near Field Tag
Embedded antenna	

INTERFACES	Micro USB type B, Bluetooth Class 2 V2.1+ EDR

OS COMPATIBILITY	**Bluetooth SPP Profile :** Android, RIM, Windows Mobile/Phone, Windows, macOS, Linux **Bluetooth HID Profile :** iOS, Android, RIM, Windows Mobile, Windows, macOS, Linux

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 readings, 14 h in idle mode

WORKING TEMPERATURE	-20°C / 60°C

DIMENSION	Height 6.8 cm – Width 4.2 cm – Depth 1.8 cm

WEIGHT	30 g

PROTECTION DEGREE	IP 54

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