

# BLUEBERRY HS UHF MS4

**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**

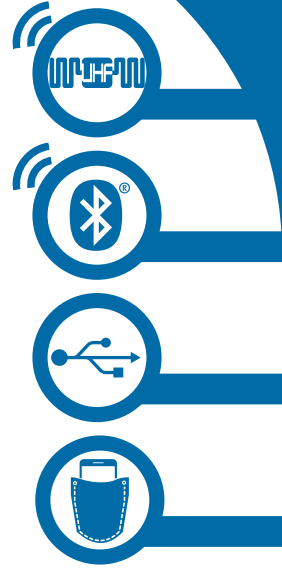
**Output ASCII / HEX with prefix and suffix**

**Battery life up to 10000 readings**

**Ring of the loop antenna is 4 mm and it's suitable for small or micro tag (such as Murata Magicstrap®) embedded on metal**

**Antenna shape has the viewfinder function**

**Max reading distance is 2/3 mm**



BlueBerry HS UHF MS4 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 2/3 mm.

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.

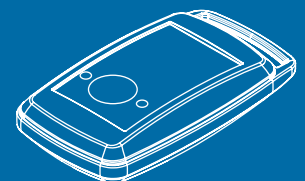
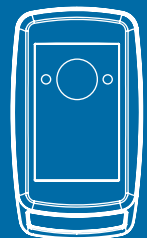
BlueBerry HS UHF MS4 integrates Bluetooth® radio technology, specifically it uses the HID and SPP profiles.

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 MS4 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 MS4 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 MS4



 MAN/MACHINE INTERFACE	1 function key for RFID read activation, Multitone Beeper, 2 LED for device operation signaling
 INTERNAL DEVICES	<p><b>RFID reader ETSI version:</b> 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: 2/3 mm</p> <p><b>RFID reader FCC version:</b> 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: 2/3 mm</p> <p><b>Ring of the loop antenna is 4 mm</b></p>
 INTERFACES	Micro USB type B, Bluetooth Class 2 V2.1+ EDR
 OS COMPATIBILITY	<p><b>Bluetooth SPP Profile :</b> Android, RIM, Windows Mobile/Phone, Windows, macOS, Linux</p> <p><b>Bluetooth HID Profile :</b> iOS, Android, RIM, Windows Mobile, Windows, macOS, Linux</p>
 PROCESSOR	Texas Instruments MSP430 (16 bit RISC a 16MHz)
 POWER SUPPLY	<p><b>USB powered:</b> 380mA peak @ 5Vdc (RF active full power), 30mA @ 5Vdc (idle mode)</p> <p><b>Battery powered:</b> Li-Poly Battery 3.7Vdc 300mAh, rechargeable via micro USB Battery life 10000 readings, 14 h in idle mode</p>
 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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