

Operational description

MTBBW10301



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1. Device version

This document is related to the MYSHERA Tag Box (MTBBW10301):

- Case version 1 - HW version 3 - FW version 1

2. Operational description

The hardware of the device is made out of a single PCB board. It includes a System-on-Chip microcontroller, among other components, featuring the radio transceiver. The antenna is a 2.4GHz patch PCB antenna.

The device is powered through the USB connector situated on the bottom side of the board. When it receives frames by BLE from Tags, it send a signal BLE to the Tag which deactivate it.



3. Case

The device's outer casing has been designed to fit and to protect the electronics while it can accumulate deactivated tags.



4. Technical information

4.1. Connections

Wired connection: USB 2.0, limited power to 15 W

Communication protocol: Wireless

4.2. Radiofrequency

Standard: Bluetooth Low Energy (Bluetooth 4.0)

Bluetooth class: B

Broadcast channels: 37-39

Modulation: GFSK

Data rate: 1Mbps

Maximum Antenna Gain: 0 dBi

Maximum transmission power: 0 dBm

Maximum conducted output power calculated: 1,7 dBm

Reception sensitivity: -94dBm

4.3. Power supply and consumption

Typical consumption: 40mA

Power supply: 5V DC (USB)

4.4. Mechanical

Dimensions: 175mm x 165mm x 185mm

Weight: 1 Kg.

Casing material: ABS

Operating temperature: -5°C to 45°C

Storage temperature: -10°C to 50°C

Operating humidity: 25% to 75%

Storage humidity: 20% to 80%

4.5. User interface

Led: Blue.