

## Operational description

**MTBBW10301**



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## 1. Device version

This document is related to the MYSFERA 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, limitated 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.