

MOTE Bluetooth LoRa™

Geolocalization system by zoning of property and people



The MOTE makes it possible to create a localization zone and to securely trace the elements present in its area (electronic label of the bluetooth tag type) via the LoRa™ network. It therefore makes it possible to track the location of tools workshop, packages or indoor operators.

BENEFITS

- > Simplicity of implementation
- > Low cost
- > LoRa™ technology
- > Non-intrusive fastening system
- > Ready-to-use



OPERATING PRINCIPLE

The MOTE locates in its environment using zoning. It integrates :

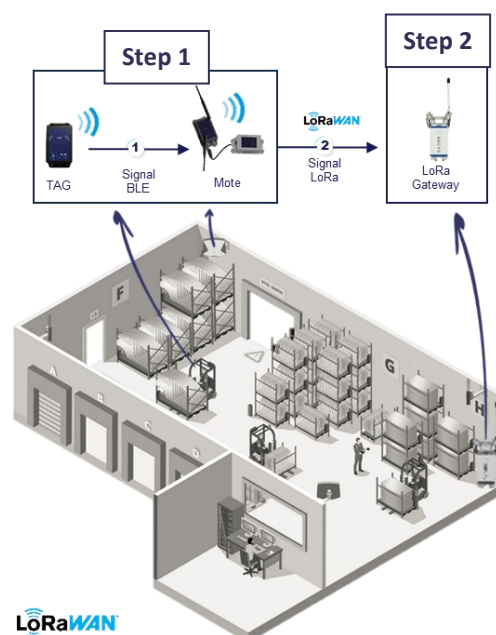
- The **MOTE** box (fixed equipment) to create an area.
- A **TAG** bluetooth (mobile part) to track tools workshop, packages or operators.

The MOTE listens to the signals emitted by the TAG located in its area (**step 1**). The MOTE reads the identification code (ID) of the TAG and transmits this information in LoRa™ to the gateway (**step 2**).

The system also allows to determine the proximity of the TAG to the MOTE via signal strength measurement (RSSI).

APPLICATIONS

- Interconnexion of a bluetooth system to a LoRa™ network.
- Indoor / Outdoor location (« MOTE » and « 2IPS » couple).
- Instrumentation : interconnection of BLE sensors (e.g. dosimeter) to a LoRa™ network.



CYBERSECURITY

- Secure transmission via LoRaWAN® or by LoRaWAN® Proprietary.
- Management of the list of bluetooth devices / beacons that can connect via the gateway.

TECHNICAL SPECIFICATIONS

General informations	
Operating temperature	-20°C à +75°C
Dimensions	120 x 80 x 59 mm (aluminium case)
Weight	Radio : 350 g Battery : 800 g
Frequency	Bands ISM 868 MHz and 915 MHz
Protection sign	Certified box IP67
Attachment system	By magnet
Performances	
RF power	14 dBm (25mW)
RF sensibility	Up to -140 dBm
Range	Up to 10 km (free rein)
Consumption and need	
Supply voltage	3,6 V nominal
Alimentation	Rechargeable battery



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