Specifications

Beacon Mini-RX-IP67

SKU: 4745010309526

General specifications

- **Name:** Beacon Mini-RX-IP67
- **Size:** 47x42x15mm
- **Weight:** ~ 40g (including housing)
- **Weight:** ~ 19g (without housing and compound)
- **Power:** 5V, supplied via Micro-USB cable
- **Radio frequency band:** 868/915MHz
- **Radio output power**: <10 mW (<10 dBm)
- **Battery:** Li-Ion 500mAh (soldered to the board)
- **Ports:** Micro-USB port

Tracking performance

	IA	NIA	MF NIA
Stationary beacon	✕	✓	✓
Automatic map building	✕	✕	✕
Mobile beacon	✓	✕	✕

- **TX frequency:** None
- **RX frequency:** Any of: 19, 22, 25, 28, 31, 34, 37, 45kHz*
- **Distance measurement:** Up to 50m 1D / Up to 120m 1D (With Marvelmind Horn)
- **Precision:** Differential: ±2cm, Absolute: 1–3% of the distance to the beacons
- **Additional sensors:** IMU - Accelerometer + gyroscope

Interfaces

- UART
- SPI
- Virtual UART via USB
- NMEA
- I2C (for compass simulation)

Supported Accessories

- Antenna Full-Size
- External microphone-IP67
- Omni-Microphone-IP67
- Horn



Overview

The Beacon Mini-RX-IP67 is a beacon for Marvelmind precise Indoor positioning and navigation system. It has a digital microphone that allows Beacon Mini-RX-IP67 to receive any frequency used in the Marvelmind system. Beacon Mini-RX-IP67 has no sensors onboard, so it can only receive signals. Due to its compact dimensions, it was mainly designed to work in IA as a mobile beacon, but it can also be used in other architectures. Beacon Mini-RX-IP67 has an IMU on board, which allows users to get information from the gyroscope and accelerometer.

The Beacon Mini-RX-IP67 is designed for outdoor conditions and industrial applications. It is IP67-protected except for the USB connector.

Applications

- Industrial (Forklift/people tracking, factory automation)
- Healthcare (locate assets, patients & staff)
- Retail (security, navigation, customer analytics)
- Consumer (connected home, sports analytics)
- Distance measurement indoors

*digital microphone can receive any frequency we use in Marvelmind products; it can be switched automatically (IA/MF NIA) or manually (NIA

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