

General specifications

- **Name:** Beacon HW v4.9-IMU
- **Size:** 55x55x33mm (55x55x65mm with 50mm antenna)
- **Weight:** - 63g (battery + antenna + housing)
- **Radio band:** 433MHz or 868 / 915MHz
- **Battery:** Li-Ion 1000mAh (soldered to the board)

	IA	NIA
Stationary beacon	✓	✓
Automatic map building	✗	✓
Mobile beacon	✗	✓



Ultrasonic performance

- **TX frequency:** 19 / 25 / 31 / 37 / 45kHz*
- **RX frequency:** 19 / 25 / 31 / 37 / 45kHz*
- **Distance measurement:** Up to 50m with Mini-RX. Up to 30m with Beacon HW v4.9
- **Precision:** Absolute: 1–3% of the distance to the beacons / Differential precision: $\pm 2\text{cm}$

Interfaces

- UART
- SPI
- Virtual UART via USB
- NMEA

Supported Accessories

- Antenna full-size

Applications

- Forklifts / robots tracking indoors
- Indoor tracking for people
- Middle/Big drones tracking indoors

Overview

The Beacon HW v4.9-IMU is a beacon for Marvelmind precise Indoor positioning and navigation system. The system is used for autonomous robots, vehicles, drones, and people as well as for industrial applications requiring precise positioning and localization indoors.

*depends on sensors pre-installed. Can not be changed in the settings