

General specifications

- **Name:** Modem HW v5.1
- **Size:** 30x30x115mm (with 110mm antenna)
- **Weight:** - 20g - with housing (16g - without housing)
- **Radio band:** 868 / 915MHz
- **Radiation power:** 10mW

Supported architectures

- **IA:** Up to 255 beacons per system (stationary + mobile combined)
- **NIA:** Up to 255 beacons per system (stationary + mobile combined)

Interfaces

- UART
- SPI
- Virtual UART via USB

Supported Accessories

- Antenna full-size

Applications

- Forklifts / robots tracking indoors
- Indoor tracking for people
- Drones tracking indoors



Overview

The Modem HW v5.1 is a modem 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.

The case is made of black plastic. It has a micro-USB port for connecting to a PC. Has an LED indication of inclusion. Has a power switch. Has a removable radio antenna.

The device is installed in the center of the system for reliable connection to all elements of the system. Via Micro-USB it connects to a PC.

When the system is deployed, the modem transmits the location of the mobile beacons to the PC. The modem communicates with the receiving devices via an unlicensed radio channel 868 / 915 MHz.