

IPS+ UWB Beacon L for indoor positioning (RTLS)

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For applications with the highest accuracy demands, a real-time localization system (RTLS) based on ultra-wideband technology working in the 6-7 GHz range can be a good fit. This consists of mobile senders (UWB Beacons) and stationary receivers with known positions.

This UWB Beacon L is the right choice for application where tracking the position of assets is the main goal. This can be useful to increase the efficiency of material logistics, track forklifts or improve processes by finding working equipment more quickly.

The beacon sends its ID in a configurable interval which can be used to influence the battery life of the device. The typical tracking accuracy is around 20 cm if there are enough UWB Receivers in the area.

Thanks to the internal USB socket, the device is easy to charge over night with any existing cellphone charger. The integrated button sends an event to the receiver where it is forwarded to the local software (eg. the metraTec IoT-Engine) which processes this event. This can be used to trigger an alarm, ask for assistance or mark a certain spot.



- ⦿ Long battery life
- ⦿ Replaceable batteries
- ⦿ Up to 40 m range
- ⦿ Water-proof housing

Technical Specification

Operating Principle	Ultra-Wideband (UWB) RTLS Beacon for assets
Operating Frequency	6240-6740 MHz (Ranging) and 2400-2480 MHz (Configuration)
Antenna Connector	integrated wideband chip antenna
RF Channels	IEEE 802.15.4 Channels 11 – 26 supported (configurable)
Read Range	up to 40m (line of sight)
Ingress Protection	IP65
Operating Voltage	3x AAA Battery (replaceable)
Battery Life	Up to 5 years (5 rangings per day)
Weight	250g
Temperature Range	-20 °C to +60 °C
Dimensions	90 x 60 x 45 mm

This UWB Beacon only works with the corresponding UWB Receiver manufactured by metraTec. The ASCII protocol is open and can be processed by any software. For an easy start, have a look at our IPS+ Starter Kit consisting of 3 UWB Receivers, 2 Beacons and a demo version of our IoT-Engine software.

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About Metratec

Metratec is a manufacturer of RF electronics specialized in wireless “Identification” (RFID) and “Localization” (RTLS). We serve a variety of markets from the manufacturing industry and logistics to vending machines and medical devices. Our customers include OEM customers, IoT system integrators and research facilities worldwide.

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