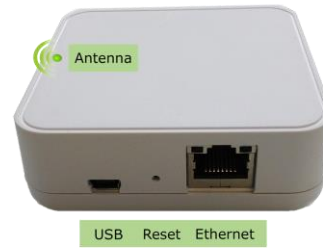


Anchor for RTLS-TDoA

Reference node – static device

Features

- Compliant with UWB PHY IEEE 802.15.4a
- Decawave UWB Radio, 6 channels 3-7GHz
- Driven by MCU ARM Cortex M4
- Configurable via RTLS Manager interface
- Anchor's wireless sync via UWB
- Ethernet used as a backhaul
- Firmware upgrade over Ethernet
- Native web interface
- For Indoor Use
- Master and slave mode



Anchor Interfaces



Anchor mounting with holder

Anchor is a referential node with a known position. Set of anchors creates location infrastructure for mobile nodes which are located.

The primary goal of the Anchor is to gather signals from mobile locators called Tags and then to forward data to RTLS Server for position estimation. Generally, the Anchor is IP network device equipped with an Ethernet interface for both data backhaul and power supply. Anchors are configured and managed via RTLS Manager software. They are delivered with holders in order to simplify the installation in any premises. They are usually mounted into the ceiling using these holders. This ensures that the Anchor covers maximum area with its radio signal and that minimum obstacles are blocking its communication line.

Dimensions	70x50x21 mm
Weight	28g
Power Requirements	1.5W (DC 5V, ≈ 250mA)
Temperature	0 – 50 °C
Radio Range	15-50m*
	*depends on line of sight conditions, radio settings and environment

Power Supply Option

Description

Power from USB*

USB, DC 5V, 500mA
Maximum cable length 1.8m

Power from Passive POE Injector**

DC 24V/48V, injected in unused Ethernet pairs
4,5 positive terminal, 7,8 negative terminal
Maximum cable length CAT5e 100m

(not compliant with IEEE 802.3af)

**only one either USB or Passive PoE can be used for powering a device at one time, never connect both*

***injectors are provided by Sewio*

Never supply power to the Anchor from both USB and Ethernet as it can damage the device!