

RTLS TDoA System Overview

Technical Overview

- Compliant with UWB PHY IEEE 802.15.4a
- DecaWave UWB Radio
- 4 Channels
- 3 7 GHz

RTLS Devices

Tags

Tag is an active mobile locator. Its position is reported within selected refresh rate. Tracked object need to be equipped with this device.

Anchors

Anchor is a referential device with a known position. Set of Anchors creates location infrastructure where Tags are being located.















White labelling possible



HW layout available

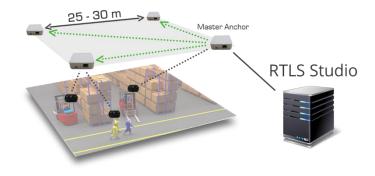




System Architecture

Li-ion Tag

Anchors are mounted on the ceiling and placed in a grid manner. Tags transmit UWB signals to Anchors, which send data to a server via Ethernet or Wi-Fi. The server is preloaded with RTLS Studio, which is a user friendly software with many features.



Key Features

Accuracy from presence detection to decimeter level of accuracy Devices From < 10 To more than 1000 Space from one cell covered by 4 Anchors to almost unlimited number of cells Position update from 60s to 100 ms







