

Ultra Wide Band TAG IP67

CT01



Key items:

- Person and object tracking using long range UWB
- Up to 3 years active service³. 1Hz, heartbeat and wake on motion
- Capacity up to 42000 trackers at 1Hz per zone of 200x200m/UWB Ch.
- Ruggedized up to 2.5kN
- ATEX
- IP67
- Operates outside congested wifi bands
- Decawave UWB Radio, 3-7GHz, IEEE 802.15.4a
- 3dBm BLE 5.3
- Firmware upgrade over the air (AES security, unique ID)
- 2500mAh NiMh battery (3xAA)

Localisation upto 2cm outdoor and < 30cm indoor accuracy¹. Typical indoor range in buildings for AIRTLS UWB equipment is 30m at 6.8MBps passing through some walls. Factory halls up to 150m. Outdoor up to 300m LOS. Special electronics to increase sensitivity and selectivity of the radio transceiver enable long range indoor tracking. Radio signals travel through walls enabling a true 3D tracking environment of the whole building. The ultrawideband radio guarantees a reliable connection as a data backhaul for bi-directional secured communication. UWB operates outside the WiFi bands using worldwide allowed unoccupied frequencies.

Options

- Display 128x128, 4uW, memory in pixel
- Haptic motor
- NFC
- Qi charge
- Magnetometer
- GNSS, GPS
- 2 buttons
- USB charge



Sports tracking, object tracking



UWB indoor & outdoor tracking



Energy efficient:



Network to all IOT devices



3D visualisation app



Infiniscale[®], wireless scaleable



42000 1Hz trackers per zone (200x200m)²



2800 locates per second in 3D



Low latency, collect data every 40ms

Dimensions	78 x 60 x 24 mm
Weight	62g
Operational temperature	-10 to +70 °C
Accu	2500 mAh
Radio	UWB 4-7GHz BLE 5.3 2.4GHz

¹: Accuracy range from up to sub cm accuracy in line of sight condition in a calibrated environment to few decimeter accuracy in standard commercial building environment with brick or concrete walls
²: Standard firmware supports 20822 trackers at 40ms latency in data collection per typical zone of 200x200m, per UWB channel. 2 UWB channels can be active.
 High Capacity firmware support 84000 1Hz trackers (reverse TDoA) at a higher latency, 2 UWB Channels.