

Key items:

- Person and object tracking using long range UWB
- · Operates outside congested wifi bands
- Decawave UWB Radio, 3-7GHz, IEEE 802.15.4a
- 3dBM Bluetooth 5.3
- Firmware upgrade over the air (AES security, unique ID)
- 500mAh LiPo battery

Indoor localisation < 20cm accuracy¹

Typical indoor range in buildings for AIRTLS UWB equipment is 30m at 6.8MBps passing through some walls. 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

World smallest UWB tag with display

- Display 128x128, 4uW, memory in pixel
- Haptic motor
- NFC
- Qi charge
- Magnetometer
- Black or transparant enclosure



AIRTLS 7 pin magnet-USB connector Charge cable included

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	14226
	de la como

S	Secure access & control
ι	JWB indoor tracking
E	Energy efficient: 2 UWB modes
Ν	letwork to all IOT devices
3	D visualisation app
h	nfiniscale [®] , wireless scaleable

Dimensions	65 x 35 x 11 mm
Operational temperature	-15 to +70 °C
Accu	500 mAh
Radio	UWB 3-7GHz Bluetooth 2.4GHz



V 1.0

1: Accuracy range from sub cm accurate in line of sight condition in calibrated environement to few decimeter accuracy in standard commercial building environment with brick or concrete walls



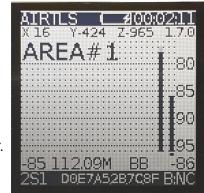
DISPLAY

MIP display 128x128

QR code is active when the tag has horizontal orientation and is active QR code shows mac-address and name of the tag







In other orientation device status and ranging information is displayed. In the example: The tag has been operational for 2min11

The battery is full The accelerometer values are shown XYZ 1G=4096 The name is AREA#1 (9 char UTF-8)

The 3 pixels below the bar indicate the signal strength from an anchor ('BB') as received on the tag plus the distance to the anchor. -85 dBm anchor 'BB' RX -86 dBm tag RX Distance 112.09 meter

Dark colored footer 2S1 (UWB channel 2, seat 1 out of 188 is used by the tag). 4 distances per cycle. 12.5cycles per second. MAC-address B:NC Bluetooth external device like a heart rate belt of phone: NC not connected. 3 BT mac-addresses can be set

B:NC Bluetooth external device like a heart rate belt of phone: NC not connected. 3 BT mac-addresses can be set to automatically pair to the device.