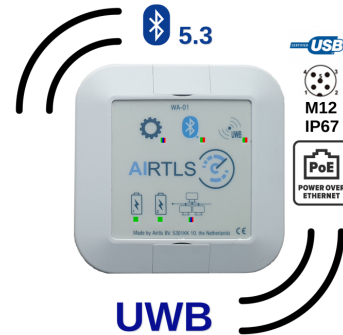


# Ultra Wide Band ANCHOR WA02

## 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)
- 900mAh LiPo battery (optional)



Indoor localisation < 20cm accuracy<sup>1</sup>.

Typical indoor range in buildings for AIRTLS UWB equipment is 30m at 6.8MBps passing through some walls. Outdoor up to 300m. 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.



Secure access & control

UWB indoor tracking

Energy efficient: 2 UWB modes

Network to all IOT devices

3D visualisation app

Infiniscale<sup>®</sup>, wireless scalable


Connector 1 : M12 5 pin  
Power input : M12 connector 4.5 to 28VDC  
USB (via M12 connector)  
PoE (optional)  
Internal battery (optional)

## Optional

- Connector 2 : Ethernet 10/100  
- WiFi : ESP32-S3  
- Battery : 500mAh

Dimensions	100 x 100 x 27 mm
Operational temperature	-15 to +70 °C
Weight	200g
Power consumption	0.5Watt typical
Radio	UWB 3-7GHz Bluetooth 2.4GHz

## WA02 LEDS

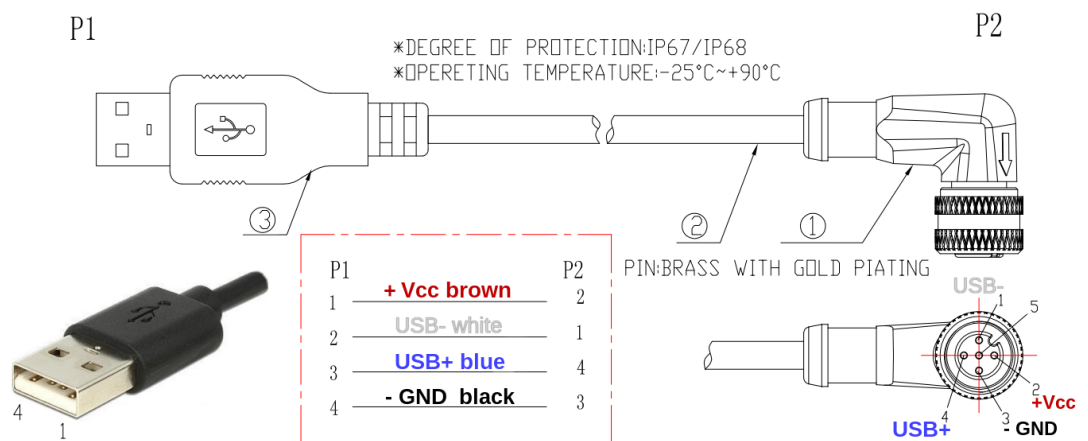
	LED	Blinking
SYSTEM	RGB	Blue: system init
BLUETOOTH	RED/GREEN	Red: bluetooth advertise Green: connected
UWB	RED/GREEN	Red: TX, Green: RX
		
BATTERY 1	GREEN	Green: charging
BATTERY 2	GREEN	Green: charging
NETWORK 10/100	RED/GREEN	Red: TX, Green: RX

## USB, Power cable

USB 5V. Input voltage range WA01 M12 connector (P2): 4.5 to 28VDC

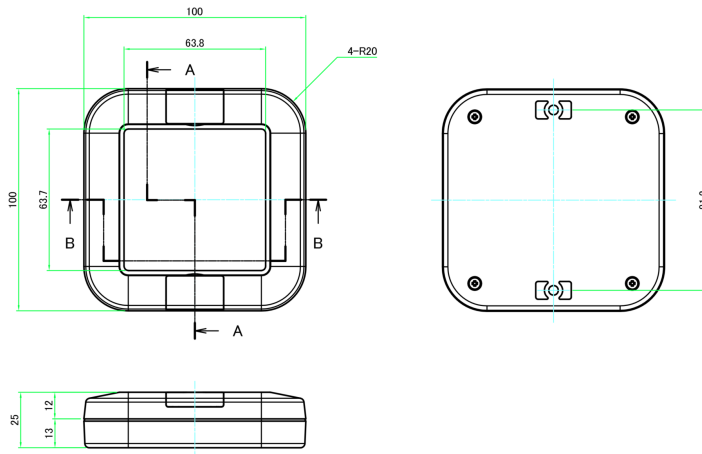
P1: USB-A

P2: M12 5pin IP67



For industrial and building automation a star topology on 24VDC power supply is recommended using the M12 ready made power supply cables. For data offloading a M12 to USB cable can be used.

# DIMENSIONS



**OPTIONAL:**  
3/8 UNC Mounting bracket



I-beam Mounting flanghe (100 to 250mm wide flanges)

