

# UbiTrack™

## UWB Positioning Series

UbiTrack™ UWB Positioning Series, is a new generation of indoor and outdoor wireless positioning technology integrating multiple sensors. By using UWB (Ultra Wideband, nanosecond narrow-pulse non-sinusoidal) wireless communication mode combined with multiple algorithms, the positioning accuracy can reach up to 10cm. This technology has the advantages of high precision positioning, low power consumption, high anti-interference ability, low cost and small size.



# UbiTrack™ UWB Positioning Series



## Indoor Anchors

Network : Ethernet  
UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply : Micro USB(5V,2A) or PoE  
Operating Temperature : -20°C to 60°C  
Dimensions : 7.87" x7.87" x1.77"  
(200mm×200mm×45mm)  
Materials : Flame resistant ABS & PC

UbiTrack-A1 provides high accuracy measurements and is capable of dynamically supporting dozens of tags at the same time. The physical appearance of the anchor can be customized if wanted.



## Outdoor Anchors

Network : Ethernet, 4G  
UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply : 12V,1A or PoE  
Operating Temperature : -20°C to 60°C  
Dimensions : 8.46" x8.46" x2.56"  
(200mm×200mm×45mm)  
Materials : Aluminium Alloy  
IP Level : IP65

UbiTrack-A2 provides high accuracy measurements and is capable of dynamically supporting dozens of tags at the same time. It supports IP65 waterproof and the physical appearance of the anchor can be customized if wanted.

# UbiTrack™ UWB Positioning Series



## Goods Positioning Tags

UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply: Rechargeable 2900mAh lithium battery  
Operating Temperature: -20°C to 60°C  
Operating Humidity: 10-90%RH  
Dimensions: 2.56" x 2.56" x 0.65"  
(65mm x 65mm x 16.5mm)  
Shell Materials: Flame Resistant ABS+PC  
Battery Life: Over 12 months (1Hz frequency, TDOA)  
Allowed to add additional sensors: Temperature, Humidity, Light

UbiTrack-TG1 can be used to track the location of goods within the warehouse or other environments. The tags will allow you to accurately track the progress of orders and to locate stock. This can help ensure the security of your stock as well as improving the efficiency of your operations. The built-in temperature, humidity and light sensors also allow you to monitor the condition of sensitive stock.



## Positioning Badge

UWB Operating Frequency: 3.5GHz-6.5GHz  
Additional Sensors: Acceleration Sensor  
Power Supply: Rechargeable 950mAh lithium battery  
Dimensions: 4.92" x 2.76" x 0.27" (125mm x 70mm x 6.9mm)  
Optional Functions: Messages, vibration or voice, SOS, etc.  
Stand-by Power Consumption: 0.15mW  
Battery Life: 1-3 months (1Hz frequency, TDOA)  
Operating Temperature: -20°C to 60°C  
Operating Humidity: 10-90%

UbiTrack-TB1 is a card positioning tag that can be worn as a work tag for personnel positioning. It supports UWB, Bluetooth mixed location two-way communication. The badge includes tracking, contactless door access (RFID), motion detection and SOS one-click alarm, and it can also be equipped with an optional e-ink screen to display detailed information of personnel, notification information and so on.

# UbiTrack™ UWB Positioning Series



## Civilian Wristband

UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply: Rechargeable 400mAh lithium battery  
Operating Temperature: -20°C to 45°C  
Operating Humidity: 10-90%RH  
Dimensions: 42.5mm\*42.5mm\*16.3mm  
Battery Life:1-3 months (1Hz frequency, TDOA)  
Additional Sensors: Heart rate (photoelectric), Acceleration Sensor

UbiTrack-TWC1 is a smart watch positioning tag, it is mainly used for people positioning, such as the elderly or special groups. It supports UWB and Bluetooth mixed positioning two-way communication. The watch has physiological monitoring, electronic fence, alarm, step counting and other functions. Its' OLED display screen can display time, heart rate, notification and other information.



## Non-Removable Wristband

UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply: Rechargeable 400mAh lithium battery  
Dimensions: 10.83" ×2.20" ×0.81"  
(275mmx56mmx20.5mm)  
Stand-by Power Consumption: 0.15mW  
Battery Life:3-6 months (1Hz frequency, TDOA)  
Operating Temperature: -20°C to 45°C  
Operating Humidity: 10-90%RH  
Additional Sensors: Heart rate (photoelectric), Acceleration Sensor

UbiTrack-TWL1 is a Non-Removable Wristband, mainly used in judicial settings. It has the functions of positioning, Non-Removable, physiological monitoring, electronic fence and alarm.

# UbiTrack™ UWB Positioning Series



## Non-Removable Wristband

UWB Operating Frequency: 3.5GHz-6.5GHz  
Power Supply: Rechargeable 400mAh lithium battery  
Dimensions: 10.83" x2.20" x0.81"  
(275mmx56mmx20.5mm)  
Stand-by Power Consumption: 0.15mW  
Battery Life:3-6 months (1Hz frequency, TDOA)  
Operating Temperature: -20°C to 45°C  
Operating Humidity: 10-90%RH  
Additional Sensors: Heart rate (photoelectric), Acceleration Sensor

UbiTrack-TWL2 is a Non-Removable Wristband(with screen), mainly used in judicial settings. It has the functions of positioning, Non-Removable, physiological monitoring, electronic fence and alarm.



## Hybrid UWB-GNSS Positioning Tags

Positioning Mode: UWB+GPS+BDS  
UWB Operating Frequency: 3.5GHz-6.5GHz  
UWB transmitting power: 0-33.5dB (Adjustable)  
Bluetooth Operating Frequency: 2.4 GHz  
Power Supply: Rechargeable 2900mAh lithium battery  
Operating Temperature: -20°C to 60°C  
Operating Humidity: 10-90%RH  
Dimensions: 122mm\*78mm\*27mm  
Battery Life:6-9 months (10s Positioning frequency)

UbiTrack-TUG1 is a mixed Non-Removable positioning tag. It integrates UWB positioning and GPS/BDS satellite positioning. It can switch between UWB positioning and GPS/BDS satellite positioning to ensure accurate and reliable positioning between indoor and outdoor. This tag meets the requirements of full scene positioning, and it has physical Non-Removable alarm and algorithm mobile alarm function.