



# PRODUCT CATALOGUE

Making Sense of Your World

# UbiBot®

## Wireless Multi-Sensor Device Series

The UbiBot® wireless multi-sensor device series give fast, accurate measurements and the devices periodically synchronises all data to the UbiBot® platform via WiFi, GPRS, 4G or Ethernet. The IoT platform offers custom monitoring, analysis, reports and alerts. All your data and reports are stored securely, and can be accessed via the web or the UbiBot® mobile APP.



# UbiBot® Wireless Multi-Sensor Device Series



## UBIBOT WS1

Materials : Flame resistant ABS & PC  
Batteries : 2\*AA(alkaline battery recommended,not included)  
Dimensions : 65\*65\*16.5mm  
Built-in memory : >300,000 sensor readings  
Ports : 1\*Mini USB, 1\*Micro USB  
External sensors: DS18B20 temperature probe  
Internal sensors : temperature, humidity, ambient light, vibration

UbiBot® wireless smart multi-sensor device WS1, it has a small size and easy to take. DS18B20 temperature probe can be externally connected. The WS1 has been used to give peace of mind in numbers settings including smart home, agriculture management and inventory monitoring.



## UBIBOT WS1 Pro

Materials : Flame resistant ABS & PC  
Batteries : 4\*AA(alkaline battery recommended,not included) / Micro USB power (DC 5V)  
Dimensions : 126\*86\*22.5mm  
Built-in memory : >300,000 sensor readings  
Ports : 2\*Micro USB  
External sensors: DS18B20 temperature probe, RS485  
Internal sensors : temperature, humidity, ambient light  
Network Support : WiFi

UbiBot® wireless smart multi-sensor device WS1 Pro supports WiFi network. It can connect with DS18B20 temperature probe and RS485 probe. With its wireless monitoring, clear LCD display, the WS1 Pro has been used to give peace of mind in numbers settings including smart home, agriculture management and inventory monitoring.

# UbiBot® Wireless Multi-Sensor Device Series



## UBIBOT WS1 Pro-GPRS

Materials : Flame resistant ABS & PC

Batteries : 4\*AA(alkaline battery recommended,not included) / Micro USB power (DC 5V)

Dimensions : 126\*86\*22.5mm

Built-in memory : >300,000 sensor readings

Ports : 2\*Micro USB

External sensors: DS18B20 temperature probe,RS485

Internal sensors : temperature,humidity,ambient light

Network Support : WiFi, GPRS

Supports Micro SIM card(15\*12\*0.8mm)

UbiBot® wireless smart multi-sensor device WS1 Pro-GPRS supports WiFi and GPRS network.It is cost-effective and no longer restricted to LAN. It can connect with DS18B20 temperature probe and RS485 probe.



## UBIBOT WS1 Pro-4G

Materials : Flame resistant ABS & PC

Batteries : 4\*AA(alkaline battery recommended,not included) / Micro USB power (DC 5V)

Dimensions : 126\*86\*22.5mm

Built-in memory : >300,000 sensor readings

Ports : 2\*Micro USB

External sensors: DS18B20 temperature probe,RS485

Internal sensors : temperature,humidity,ambient light

Network Support : WiFi, GPRS, 4G

Supports Micro SIM card(15\*12\*0.8mm)

UbiBot® wireless smart multi-sensor device WS1 Pro-4G supports WiFi, GPRS and 4G network.It is no longer restricted to LAN. WS1 Pro-4G also can connect with DS18B20 temperature probe and RS485 probe.

# UbiBot® Wireless Multi-Sensor Device Series



## UBIBOT GS1 - A

Materials : Flame resistant ABS & PC  
Batteries : Type-C power / DC power 5V  
Dimensions : 115\*90\*55mm  
Built-in memory : >300,000 sensor readings  
Ports : 1\*Type-C  
Screen Size : 4 inches LCD  
Internal sensors : temperature, humidity  
Network Support : WiFi

UbiBot® industrial-grade wireless smart multi-sensor device GS1-A supports WiFi network. Built-in temperature and humidity sensor, no external probe. GS1-A is industrial grade, IP65 grade dustproof and waterproof which make it can adapt with a variety of harsh environment.



## UBIBOT GS1 - AL2G1RS

Materials : Flame resistant ABS & PC  
Batteries : Type-C power / DC power 5V  
Dimensions : 115\*90\*55mm  
Built-in memory : >300,000 sensor readings  
Ports : 1\*Type-C, 1\*3.5mm Audio  
External sensors: RS485  
Screen Size : 4 inches LCD  
Internal sensors : temperature, humidity, ambient light  
Network Support : WiFi、GPRS  
Supports Micro SIM card(15\*12\*0.8mm)

UbiBot® industrial-grade wireless smart multi-sensor device GS1-AL2G1RS supports WiFi and GPRS network. Built-in temperature, humidity and ambient light sensor. It can connect with RS485 probe. GS1-A is industrial grade, IP65 grade dustproof and waterproof which make it can adapt with a variety of harsh environment.

# UbiBot® Wireless Multi-Sensor Device Series



## UBIBOT GS1 - AL4G1RS

Materials : Flame resistant ABS & PC  
Batteries : Type-C power / DC power 5V  
Dimensions : 115\*90\*55mm  
Built-in memory : >300,000 sensor readings  
Ports : 1\*Type-C, 1\*3.5mm Audio  
External sensors: RS485  
Screen Size : 4 inches LCD  
Internal sensors : temperature, humidity, ambient light  
Network Support : WiFi、GPRS、4G  
Supports Micro SIM card(15\*12\*0.8mm)

UbiBot® industrial-grade wireless smart multi-sensor device GS1-AL4G1RS supports WiFi, GPRS and 4G network. Built-in temperature, humidity and ambient light sensor. It can connect with RS485 probe. GS1-A is industrial grade, IP65 grade dustproof and waterproof which make it can adapt with a variety of harsh environment.



## UBIBOT GS1 - AETH1RS

Materials : Flame resistant ABS & PC  
Batteries : Type-C power / DC power 5V  
Dimensions : 115\*90\*55mm  
Built-in memory : >300,000 sensor readings  
Ports : 1\*Type-C, 1\*3.5mm Audio, 1\*RJ45  
External sensors: RS485  
Screen Size : 4 inches LCD  
Internal sensors : temperature, humidity  
Network Support : WiFi、Ethernet

UbiBot® industrial-grade wireless smart multi-sensor device GS1-AETH1RS supports WiFi and Ethernet network. Built-in temperature and humidity sensor. It can connect with RS485 probe. This version contains the RJ45 network cable port can be more stable, and solve the transmission instability.

# UbiBot® Wireless Muti-Sensor Device Series



## UBIBOT GS2

Materials : Flame resistant ABS & PC

Batteries : Type-C power / DC power 5V

Dimensions : 115\*90\*55mm

Built-in memory : >300,000 sensor readings

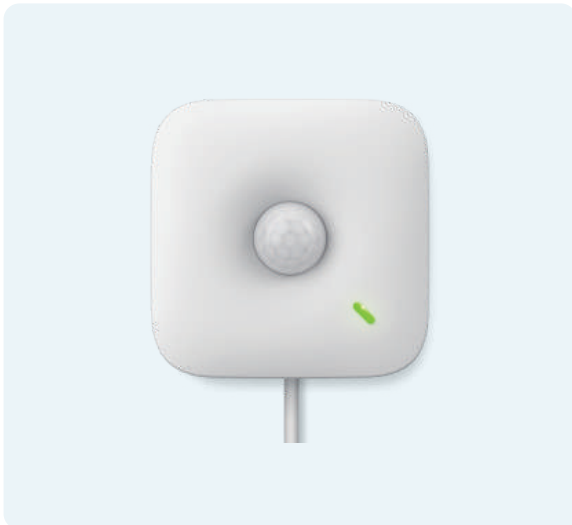
Ports : 1\*Type-C, 1\*BNC, 1\*Three core aviation Socket

External sensors: DS18B20 temperature, EC probe, PH probe

Screen Size : 4 inches LCD

Network Support : WiFi

UbiBot® industrial-grade wireless smart multi-sensor device GS2 supports WiFi, GPRS and 4G network. It can connect with EC probe, PH probe and DS18B20 temperature probe. GS2 is industrial grade, IP65 grade dustproof and waterproof which make it can adapt with a variety of harsh environment.



## HUM1

Materials : Flame resistant ABS & PC

Batteries: Micro USB (5V) /POE (5V)

Dimensions : 80\*80\*48mm

Ports : 1\*Micro USB, 1\*RJ45

Measuring Distance: 12m

Measuring Angle: Vertical102°, Horizontal92°

Network Support : WiFi, Ethernet

HUM1 is a remote pyroelectric infrared human perception device with built-in temperature and humidity sensors. The device can detect people's position in space and sense the temperature and humidity of the surrounding environment. The device can connect to the Internet through WiFi or RJ45 network cable, and upload data to UbiBot® data platform in real time.

# UbiBot® Wireless Muti-Sensor Device Series



## AQ1

- Materials : Flame resistant ABS & PC
- WiFi Frequency : 2.4GHz, channels1-13
- Batteries : Type-C power / DC power 5V
- Dimensions : 130\*95\*70mm
- Ports : 1\*Type-C
- Screen Size : 105\*63mm OLED Screen
- Network Support : WiFi

AQ1 is a device that integrates multiple sensors and can detect and record the ambient data in real time, quickly and accurately. The top is equipped with a replaceable LED air quality display module, which directly displays the current air quality through color changes. Through WiFi, GPRS or 4G mobile network, the device uploads data to UbiBot® data platform in real time.



## SP1 - WiFi

- Materials : Flame resistant ABS & PC
- Dimensions : 66\*120\*35mm
- power dissipation :  $\leq 0.1W$
- External sensors: RS485, DS18B20
- Measuring Accracy:  $\pm 0.01A$ ,  $\pm 0.1V$ ,  $\pm 0.1W$
- Operating Temperature : 0~40°C
- Network Support : WiFi

UbiBot® smart switch SP1-WiFi, it can connect a variety of sensors and can be connected to the Internet through WiFi. The data will be collected by external sensors and the status of power failure can be uploaded to the UbiBot® data platform. Through the platform, relevant linkage and alarm can be set to promote the intelligent development direction of industry, agriculture, home and other fields.



# UbiBot® Wireless Muti-Sensor Device Series



## SP1 - SIM

Materials : Flame resistant ABS & PC

Dimensions : 66\*120\*35mm

power dissipation :  $\leq 0.1W$

External sensors: RS485, DS18B20

Measuring Accrucy:  $\pm 0.01A$ ,  $\pm 0.1V$ ,  $\pm 0.1W$

Operating Temperature : 0~40°C

Network Support : WiFi, GPRS, 4G

UbiBot® smart switch SP1-SIM, it can connect a variety of sensors and can be connect-  
ed to the Internet through WiFi, GPRS and 4G. The data will be collected by external  
sensors and the status of power failure can be uploaded to the UbiBot® data platform.  
Through the platform, relevant linkage and alarm can be set to promote the intelligent  
development direction of industry, agriculture, home and other fields.

# UbiBot® Product Accessories

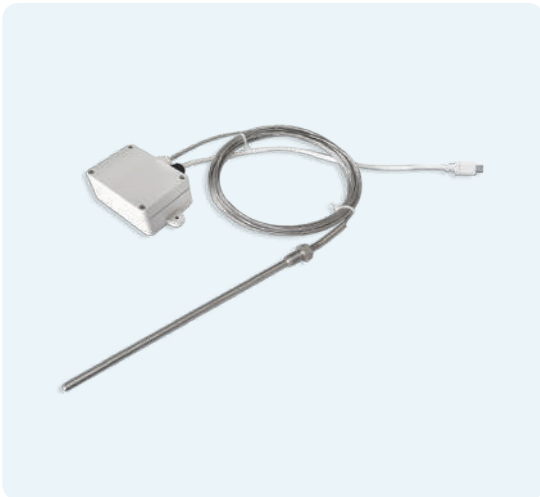
matched with UbiBot® wireless smart sensor devices,  
you can get more environmental data.





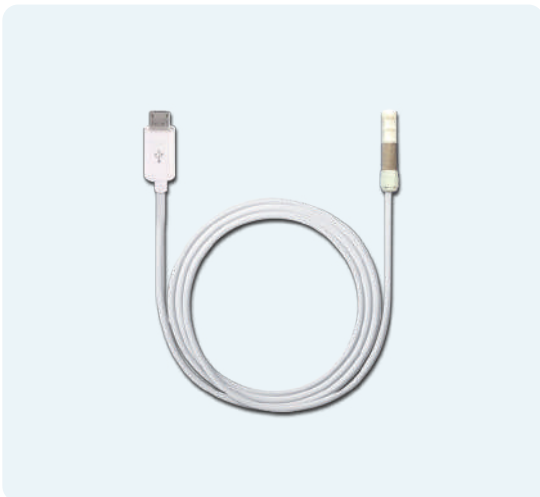
## DS18B20 Temperature Probe

Materials : Stainless steel  
Working Voltage : 3-5.5V  
Connector : Micro USB, 3.5mm Audio  
Measuring Range : -55°C ~ +125°C (-67°F to 257°F)  
Measuring Accuracy : ±0.5°C (over the range -10°C ~ +85°C)  
power dissipation : ≤0.1W  
IP Level: IP68



## PT100 Temperature Probe

Materials : Stainless steel  
Working Voltage : 5-12V  
Connector : Micro USB, 3.5mm Audio  
Measuring Range : -200°C ~ +300°C, -50°C ~ +400°C  
Measuring Accuracy : Level B  
power dissipation : ≤0.1W  
IP Level: IP68



## RS485 T/H Probe

Materials : PE + Stainless steel  
Working Voltage : DC 5-12V  
Connector : Micro USB, 3.5mm Audio  
Measuring Range : Temperature: -40°C ~ +80°C,  
Humidity: 0 ~ 100%RH  
Measuring Accuracy : ±0.3°C ; ±2% RH  
power dissipation : ≤0.1W



## CO2 Probe

Connector : Micro USB, 3.5mm Audio  
Measuring Range : 0~40000ppm  
Measuring Accuracy :  $\pm(30\text{ppm}+3\%MV)$



## Light Probe

Connector : Micro USB, 3.5mm Audio  
Measuring Range : 0.01Lux ~ 83000Lux  
Measuring Accuracy :  $>40\text{Lux } 2\%, <40\text{Lux } 5\%$



## Soil T/H Probe

Materials : Stainless steel  
Working Voltage : DC 5-24V  
Connector : Micro USB, 3.5mm Audio  
Operating Condition:  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  ( $-40^{\circ}\text{F}$  to  $+176^{\circ}\text{F}$ ) 0 to 100% RH  
Measuring Accuracy :  $<2\%(0-50\%), <5\%(>50\%)$



## Water Leakage Probe

Materials : Stainless steel

Working Voltage : DC 5-24V

Connector : Micro USB, 3.5mm Audio

Operating Condition: -40°C to +80°C (-40°F to +176°F) 0 to 100% RH

Measuring Accuracy : <2%(0-50%),<5%(>50%)



## PH Probe

Connector : BNC

Measuring Range : 0.00 ~ 14PH

Measuring Accuracy:  $\pm 0.1$ PH

Temperature Range : 5°C ~ 60°C



## EC Probe

Connector : Three core aviation Socket

Measuring Range : 0 ~ 20000 $\mu$ S/cm

Measuring Accuracy:  $\pm 2\%$ F.S



## Wind Speed Probe

Connector : Micro USB, 3.5mmAudio

Measuring Range : A 0~32.4m/s B 0~60m/s

Measuring Accuracy:  $\pm 0.02V + 0.3$



## Micro-USB Cable Splitter

Connector : Micro USB Male to two Female

Color : white

Cable Length : 18.5cm



## Water Resistant Case

IP Rating : IP53

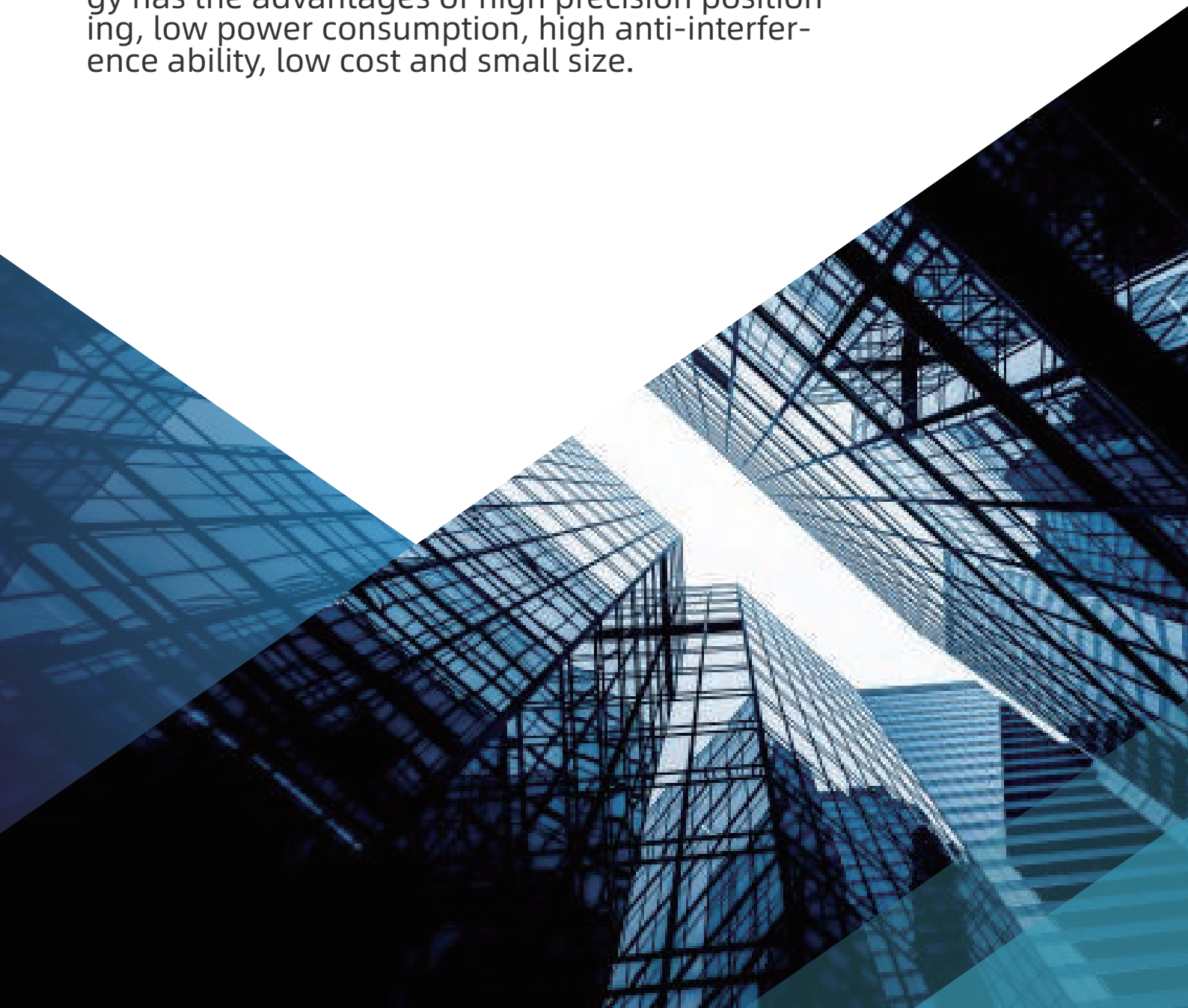
Size : 14.5\* 21cm(suitable for WS1 and WS1 Pro)

Use Cases : Greenhouse, Horticulture, forestry

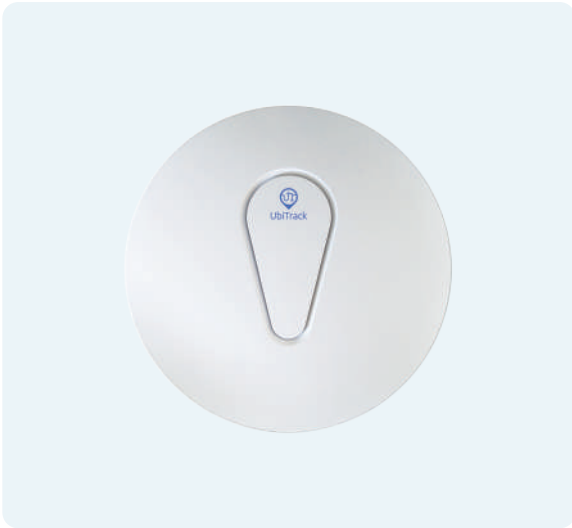
# UbiTrack™

## 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"  
(200mmx200mmx45mm)  
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"  
(200mmx200mmx45mm)  
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" ×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-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.

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