

# FSC-UP3311 UWB



**FEASYCOM**

## 1. Brief introduction

FSC-UP3311 is a positioning tag based on UWB (Ultra Wideband) technology. The main control chip adopts NRF52840 to realize the receiving and sending control of UWB signals, and the positioning chip adopts DW3220, which can realize different functions by burning different firmware.

At present, tags mainly support two functions.

Cooperate with mobile apps to achieve positioning, and cooperate with UWB base stations to achieve UWB based TDOA (arrival) High precision positioning of time difference. The tag has built-in acceleration sensor, which can intelligently switch the positioning frequency when people are moving or being stationary, so as to optimize power consumption.



## 2. Basic parameter

Working parameter	Description
Power supply mode	product size
Operating voltage	2.4-3V
Battery capacity	1000mAh
Positioning distance	$\geq 40\text{m}$
Positioning accuracy	$\leq 40\text{cm}$
Working temperature	$-20 \sim 60^{\circ}\text{C}$
Product size	$56 \times 56 \times 16\text{mm}$

BLE parameter	Description
Bluetooth version	Bluetooth v5.2
Frequency	2.400 ~ 2.484GHz;
Transmit power	-20 to +8 dBm

UWB parameter	Description
protocol standard	IEEE802.15.4-2015 IEEE802.15.4z
Frequency range	Default
Support channel	Channels 5 & 9 (6489.6MHz & 7987.2 MHz)
Communication rate	Data rates of 850 kbps and 6.8 Mbps
Ranging mode	TDoA and TWR

## 3. How to use it

### 3.1 Cooperate with mobile APP to achieve positioning.

3.1.1 Mobile phone connection mode (just use the tag) Install Feasycom FeasyUWB app



Connect under FSC-UP3311 working condition.

When the following interface appears, it means the connection is successful.


It can be operated normally.

For specific operation, please refer to the instructions for the positioning of Beacon by Feasycom UWB. mp4

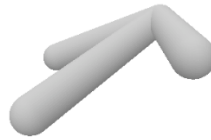


Selected Accessory  
FSC-UP3311

  
**0.6 m**  
distance

  
**-132°**  
azimuth

  
**151°**  
elevation



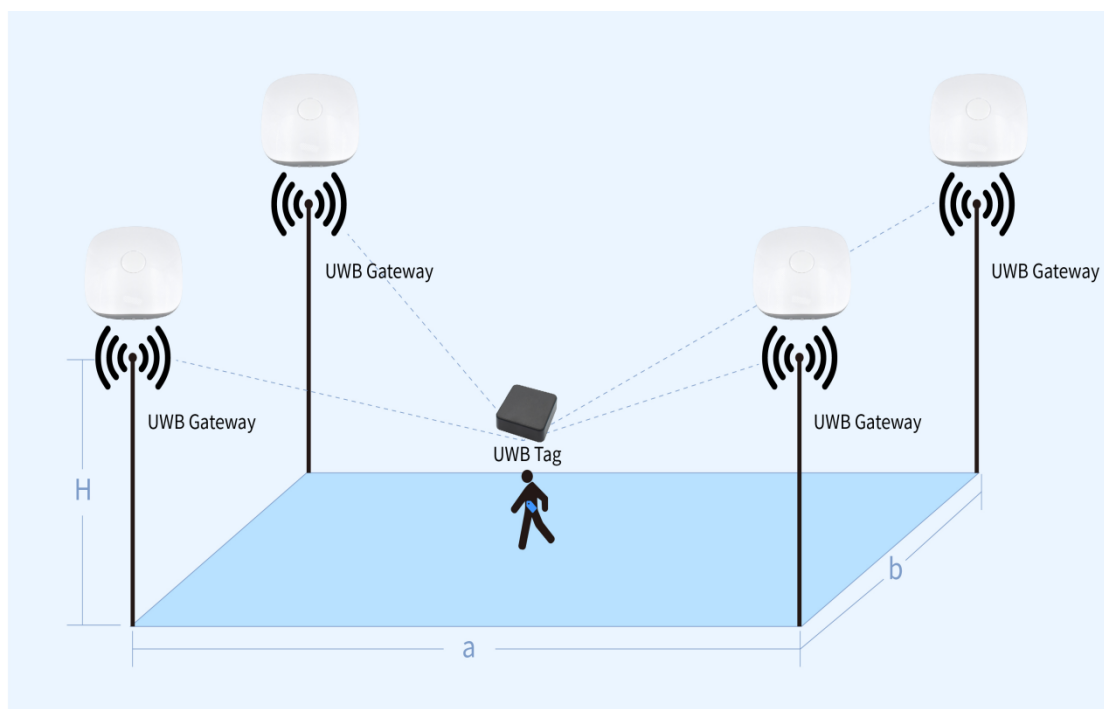
Devices near you

FSC-UP3311      -132°  | 0.6 m



### 3.2 Cooperate with the gateway to achieve positioning.

#### 3.2.1 Indoor positioning mode (need to cooperate with UWB base station)



For specific operation, please refer to the instructions for indoor positioning of Feasycom UWB. mp4.

## 4. Contact Information

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## Revision History

Version	Changes	Author
1.0	Initial Release	luzhu