

# FSC-UP3312 UWB



**FEASYCOM**

## 1. Brief introduction

FSC-UP3312 is a UWB positioning gateway. The traditional wireless positioning system uses technologies such as Wi-Fi, Bluetooth and Zigbee to roughly estimate the tag position based on the received signal strength (RSSI). The positioning accuracy is low, and it is easy to be disturbed, so the positioning stability is difficult to meet the requirements of indoor applications. Wireless positioning technology based on UWB technology has fundamentally solved this problem. FSC-UP3312 gateway cooperates with UWB tag to make its positioning more accurate, and the positioning accuracy is within 40CM.

FSC-UP3312 series power supply mode is flexible, adapter power supply or POE power supply, and different power supply modes can be configured according to different application scenarios of customers.

The main function of FSC-UP3312 can meet the positioning requirements of personnel and equipment in industry, and at the same time, it can upload the positioning data to FeasyCloud for real-time positioning!



## 2. Basic parameter

Working parameter	Description
Power supply mode	POE/DC
Operating voltage	POE 48V/DC 12V
Data upload mode	100M Ethernet /Wi-Fi
Positioning distance	≥40m
Positioning accuracy	≤40cm
Working temperature	-20~60℃
Product size	150×150×45mm

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	The default is 7737.6-8236.8mhz.
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

Wi-Fi parameters	Description
WIFI protocol	802.11 b/g/n 1x1, 2.4GHz
Frequency	2.412 ~ 2.484GHz
Transmit power (adjustable)	Transmit Power(2.4GHZ): +20.5 dBm(11 b), 18 dBm(11 n)

Adapter parameters	Description
Voltage	DC12V/1A
Working temperature	-20~60℃

### 3. Working mode

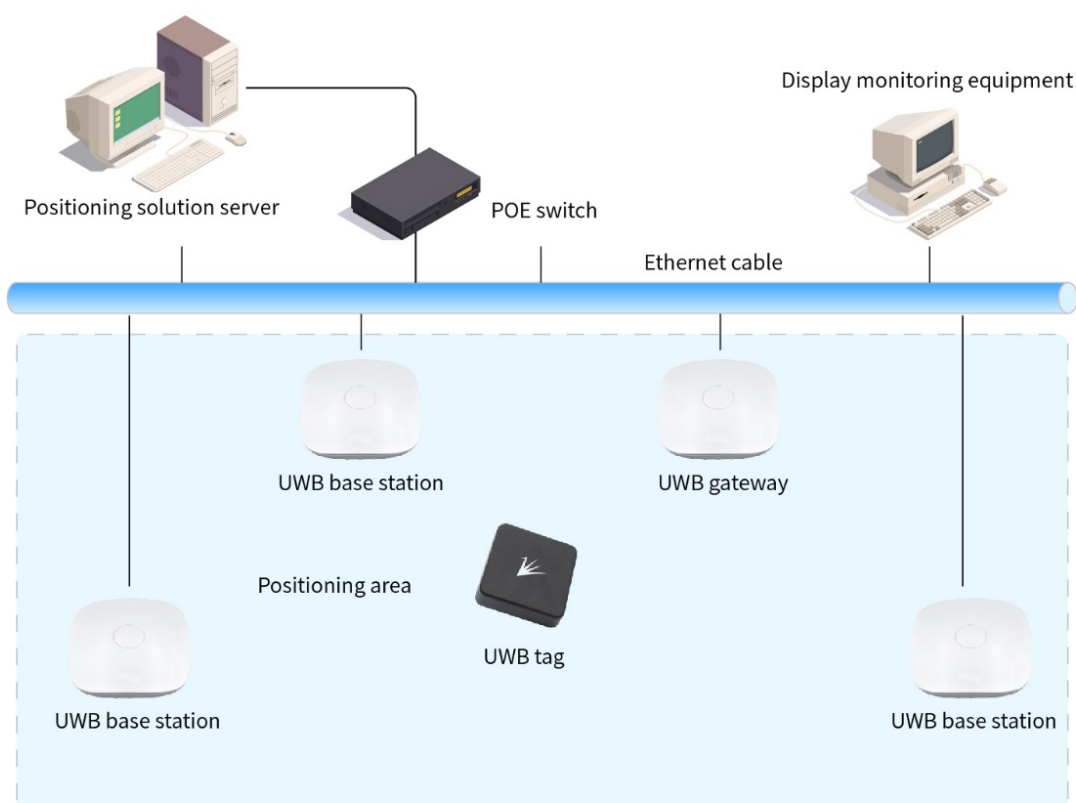
The power supply mode is POE power supply or DC power supply.

Just upload the positioning data to FeasyCloud or the upper computer through the network port /Wi-Fi.

Real-time positioning can be realized.

The figure shows a typical application.

For the specific operation mode, 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