

# RTLS Wi-SUN Node



## Features

- For organizing Wi-SUN mesh network
- Receives location data of iBeacon format

## Introduction

RTLS Wi-SUN Node is used with Wi-SUN gateway to organize the Wi-SUN mesh network, which can receive location signal from BLE tags. Wi-SUN mesh network is a suitable alternative for areas/buildings where the broadband coverage is not sufficient to deploy LAN/Wi-Fi-based receivers/locators.

## Specifications

Chip	Wi-SUN	Vangochip VC7300BU (32-bit Cortex M3)
	Bluetooth	Nordic nRF52832
Communication	Wi-SUN	IEEE 802.15.4 (Sub-GHz, 902-928M), throughput: 8-18 Kbps
	Bluetooth	Bluetooth 5.0 (2.4G)/Protocol: iBeacon
	Antenna	1 x Wi-SUN (1 dBi), 1 x 2.4G (2 dBi)
	Transmission Range	Wi-SUN: 300 m, Bluetooth: 50 m
Power	Input Voltage	DC 5V/1A, micro USB
Physical Characteristics	Dimension	90 (L) x 55 (W) x 7 (H) mm
	Weight	150 g
	Color	White
Environment	Operating Temperature	0 ~ 40 °C/32 ~104 °F
	Storage Temperature	-20 ~ 70 °C/-4 ~ 158 °F
	Operating Humidity	10 ~ 85% non-condensing
	Storage Humidity	5 ~ 90% non-condensing
Wi-SUN Mesh Network	Nodes	Each Wi-SUN gateway can communicate with up to 25 Wi-SUN nodes
	Organizing Time	3 min for 10 Wi-SUN nodes, 7 min for 50 Wi-SUN nodes

## Ordering Information

Part Number	Description
96PD-01301	RTLS Wi-SUN Node