

Sunway SW-EVK-3, UWB Evaluation Kit

The UWB development kit is delivered in a convenient and protective box.

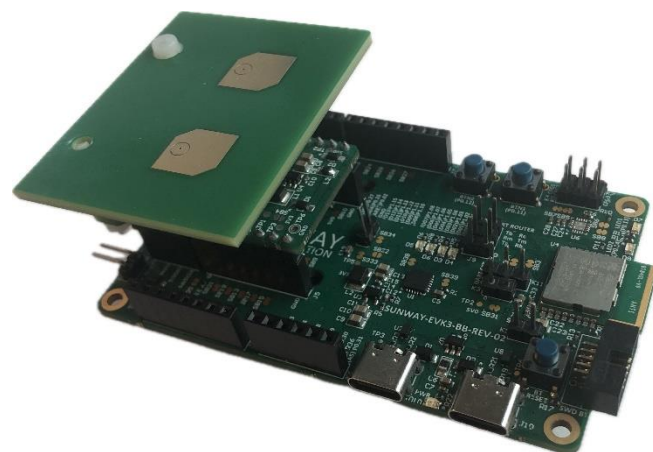
1 pc SW-EVK-3 can be used to connect to an existing device (e.g. a smartphone) equipped with a UWB app (e.g. NXP Trimension AR app).

2 or more pcs SW-EVK-3 can be connected in an anchor/tag configuration to demonstrate the positioning to locate modules operating in TWR (Two-Way-Ranging) / PDoA (Phase-Difference-of-Arrival) mode, Multinode, Multisession, DL-TDoA, UL-TDoA etc.

To develop applications like RTLS, trackers, IoT, Smart Home... with +/- 10cm ranging accuracy.

Features

- **Development Kit**
 - 1 Microbus board based on Sunway SR150 module
 - 1 BLE capable base board
 - 1 SW-SU001 dual patch antenna
 - JSON based UART interface
 - Host MCU Nordic nrf 52840
 - Host interface: USB, BLE, UART
- **Software**
 - Capability for Apple and Android Nearby
 - No firmware development skills required
- **Power**
 - USB or 3 pcs AAA (not included)



SW-EVK-3

Sunway is a proud member of the UWB association: FiRa.



Sunway Modules are Based on NXP's Trimension™ SR040 and SR150

- Sunway UWB modules integrate clock circuit, RF circuit and power management that conform to the IEEE 802.15.4z HRP UWB standard
- PHY and MAC conform to the FiRa Consortium specification
- Integrated Time-of-Flight (ToF), Time-Difference of Arrival (TDoA), Angle-of-Arrival (AoA)
- High Precision RTLS, Real-Time Location System (TDOA and AoA)

