

## Sunway SW-STU001 UWB Tag

- The Sunway SW-STU001 UWB tag is a hardware platform which can be configured for various UWB applications, for example interaction with smart phones, asset tracking etc.
- The tag contains both UWB and Bluetooth Low Energy ICs and integrated antennas. Powered by 1 pc CR2032 coin cell battery.
- Our tag has a standard casing, but can also be customized to your specific requirements, for example IP69.
- The default firmware interacts with iPhone through NXP Trimension AR App. Your own firmware can be loaded in our production.



### SW-STU001

Standard / Custom Housing  
UWB SR040 / BLE QN9090  
Buzzer / (G-sensor)  
Secure Element + (NFC)  
42 x 42 x 7.2 mm

Items	Specifications		
		UWB	Bluetooth
Connectivity	Bands	7.75 - 8.25 GHz (CH9)	2.4 - 2.5 GHz
	S11	≤ -11 dB	≤ -6 dB
	In-Band Total Average Efficiency	-2.8 dB	-2.65 dB
Power supply	CR2032		
Battery life time	At least 6 months (NB: with proper customized firmware)		
Main chip	QN9090, SR040, SE051		
Other functions	G-Sensor (optional), SE, NFC (optional), Bluetooth		
Size	41.6 mm * 41.6 mm * 7.2 mm		

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)

