

WE-T206-H Product Specification Document

1 brief introduction

The WE-T206-H is a high-precision positioning tag developed by Hainan Shidian Technology Co., Ltd. using UWB technology, supporting both TDoA and ToF positioning methods. It is compatible with both wristband and helmet wear.

The WE-T206-H features an IP67 protection rating, making it ideal for use in judicial, exhibition, and industrial environments.

2 leading feature

- IEEE 802.15.4a UWB wireless
- Rechargeable lithium battery
- SOS key
- IP67 protection rating

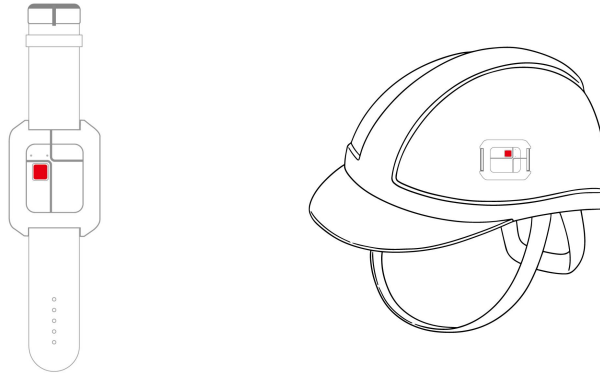
3 product picture



4 Wear style

Wristband: Helmet:

Wristband: Helmet:



5 size of product

project	description		
summary			
product name	WE-T206-H		
Related regulations	IEEE 802.15.4a		
USB	4-pin magnetic connector		
key	SOS key		
charging voltage	DC 5V		
instantaneous power dissipation	<1W		
Standby time	>1 month		
refresh rate	0.1 to 20Hz (adjustable)		
LED state	Yellow LED (right)	UWB work	Yellow Flash
	Three-color LED (left)	Charging	Light Blue
		Fully charged	Green Light
		Low battery (working)	Red Flash

		Normal (operating)	power	Green Flash
--	--	-----------------------	-------	-------------

UWB radio frequency specifications

operating frequency band	3.24GHz ~ 3.74GHz (channel 1)
	3.77GHz ~ 4.24GHz (channel 2)
	6.24GHz ~ 6.74GHz (channel 5)
physical rate	110 Kbps
	850 Kbps
	6.8 Mbps
Output power	-41.3dBm/MHz (typical), -13dBm/MHz (maximum)
channel width	500MHz
antenna gain	0.5 dBi

Software specifications

UWB work pattern	TDoA
	TOF
dormancy	Smart hibernation
Alarm upload	SoS report an emergency
	Low battery alert
	drop detection alarm
Alert Issuance	vibrate
upgrade	UART
configure	UART interface, CLI configuration

physical specification

Size (mm)	51×40×19.6
Weight (g)	36

environmental specification

temperature	Operating temperature: -20℃ to 60℃
	Storage temperature: -30℃ to 70℃
humidity	Working humidity: 0% ~ 90% without condensation
waterproof and dustproof	IP67
RoHs	compatible

6 Delivery content

name	Brief specification	quantity	number of order
WE-T206-H	Wristband positioning tag	1	AA01UT206P00
magnetic charging cable	4-pin magnetic charging cable, 800mm	1	/
watchband	nylon watch strap	1	

Attachment (not included in the delivery scope. Please contact Shidian Business in advance if required)

name	Brief specification	number of order
power adapter	5V,1A power adapter	AD0203100001
support	helmet type mounting bracket	AD1700000600
foam	The helmet-style bracket is equipped with foam padding.	AE0504000900
watchband	Nylon watch strap, extended version, 460mm	AE2112102203

