

KWU-102T Datasheet

Description: 802.15.4a UWB TAG

Main Features:

- 802.15.4a UWB
- Ceramic antenna on board
- High Power, work range more than 100 m /LOS
- High precision, ranging accuracy up to 30cm
- Cortex M4 MCU
- High capacity Li-battery
- Vibration when emergence (OPTIONAL)

Product photo



Product Spec

Item	Description
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Outline

Product description	802.15.4a UWB TAG
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Standard	802.15.4a	
Interface	Micro USB serial port	
Button	Emergency button	
Switch	Power switch	
Charge voltage	DC 5V 0.5A	
Instantaneous power consumption	< 1 w	
Battery	800mAH lithium battery	
Tricolor LED Status	Charging	Blue
	Power off charge OK	Green
	Work with low battery voltage	Red blink
	Work with normal battery voltage	Green Blink

RF Spec.

Working Band	3.25~4.75GHz (Channel 1/2/3)	
RF Tx rate	110 kbps	
	850 Kbps	
	6.8 Mbps	
Output Power (25℃)	-24dBm/MHz	
RF Bandwidth	500MHz	
Antenna gain	0.5dBi	

Software Spec.

Working Mode	TDoA	
(TAG)	ToF	
Effective distance	> 100 m LOS	

Precise	30cm
Location Frequency	0.01 ~ 100Hz
Configure	UART Command Line
Output mode	UART 115200bps
Sleep mode	Smart Power save
Warning to Server	Urgent warning Low battery warning
Warning to Tag	Vibration (Option)

Physical Spec.

Interface	UART by Micro USB
Power	DC 5V Charge
Size(mm)	53*45*27.4
Weight (g)	33.5 (Including Battery)

Environmental Spec.

Temperature	Working : -20°C~65°C Storage: -30°C~ 75°C
Humidity	Working : 0% ~ 90% No. condensation Storage : 0% ~ 90% No. condensation
Waterproof and dust proof	IP54
RoHS	Compatible

Antenna Spec.

