

# **UT-241-C Data Sheet**



#### 1 Introduction

UT-241-C is a card-type positioning tag developed by Woxu wireless Co., Ltd. based on UWB technology. It is equipped with BLE, six-axis sensors, etc., and supports TDoA and ToF positioning. Supports active sending of SOS alarms, low battery alarms, and different alarms of long periods of inactivity. The issuing alarms are equipped with vibration and buzzer prompts.

UT-241-C is equipped with RFID, supports key card, personnel information management and other functions;

UT-241-C product protection grade reaches IP67, meeting the needs of various industrial environments:

UT-241-C can be worn as an employee's work badge or used as an armband, which is widely used for personnel positioning in various fields.

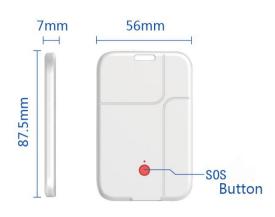
#### 2 Main feature

- IEEE 802.15.4a UWB wireless
- BLE 5.0
- SOS button
- Vibration, buzz alert
- IP67 protection level
- RFID (adjustable)



## 3 Product picture





# 4 Specification

Item	Description	
Overvew		
Model	UT-241-C	
Casification	IEEE 802.15.4a	
Specification	IEEE 802.15.1	
Chargeable interface	4pin Magnetic attraction	
Charge voltage	DC 5V	
Instantaneous power	< 1W	
Stanby time	>one month	
Refresh rate	0.1~20Hz (adjustable)	
LED	Charging	Blue Blink
	Fully charged	Blue light



	Low battery (working)	Red Blink	
	Normal battery (working)	Green Blink	
RF Spec. (UWB)	RF Spec. (UWB)		
	3.25GHz~3.74GHz (channel1)		
Frequency Range	3.77GHz~4.24GHz (channel2)		
	6.24GHz~6.74GHz (channel5)		
	110 Kbps		
Physical Rate	850 Kbps		
	6.8 Mbps		
Output power(25°C)	-41.3dBm/MHz (typical)		
Channel bandwidth	500MHz		
Antenna gain	0.5 dBi		
RF specification (BL	Æ)		
Working frequency	2.4GHz~2.4835GHz		
Physical rate	2Mbps		
Output power (25°C)	4dBm (maximum)		
Antenna gain	1.39 dBi		
Software specification			
Operating mode	TDoA		
Operating mode	ToF		
Sleep mode	Smart mode		



	SOS button	
Alarm upload	Low buttery alert	
	Inactivity for long period	
Alarm issuance	vibration (prompt, alarm, strong warning)	
Alarm Issuance	Buzzer (prompt, alarm, strong warning)	
升级	UART, OTA (UWB o BLE)	
配置	UART interface, CLI configuration	

### **Physical Spec.**

Dimensions (mm)	57×87.5×7
weight(g)	36

## **Environmental Spec.**

Temperature	Opearting: -20°C~60°C
	Storage: -30°C~70°C
Humidity	Oprating: 10%~90% non condensing
RoHs	Compatible

#### 5 Delivery content

Model	Specification	Quantity	Order number
UT-241- C	Card positioning label	1	AA01UT241C00
Magnetic			
charging	4pin magnetic charging cable, 800mm	1	/
lcable			



# Accessory (not including in the scope delivery, if you have any requirements, please contact WOXU in advance)

Model	Specification	Order number
Power adapter	5V, 1A power adapter	AD0203100001
Card cover	PVC, 105×90mm	AD1201010500