# **UT-241-E Tag**

### Introduction

CyraSecurity UT-241-E is a displayable card-type positioning tag developed based on UWB technology. It is equipped with BLE and six-axis sensor-assisted positioning and supports two positioning methods: TDoA and ToF. It can be worn as an employee's work badge and is widely used for personnel positioning in various fields;

UT-241-E is equipped with a 1.54-inch high-resolution screen with a viewing angle close to 180°. It supports information display and can be used to send reminder messages using short phrases.

UT-241-E is optionally equipped with RFID and supports access control cards, personnel information management and other functions:

The protection level of UT-241-E reaches IP65, which meets the protection requirements for use in industrial scenarios.

#### **Main Features**

#### Based IEEE 802.15.4a UWB

 Nanosecond-level pulse signals achieve centimeter-level positioning accuracy

# • BLE 5.0

- Assisted positioning to achieve Bluetooth positioning

#### SOS Button

- Active alarm and call for help with OneClick

# • Vibration and Buzzing

- The platform issues alarms, vibrates, beeps, and provides multiple alarm reminders.

# • High-Resolution Screen

- Time, step count, and short messages are displayed

#### RFID

 ISO 14443A 13.56MHz IC card, Supports access control management and other functions

# **Product**



UT-241-E Tag

# **Product Specifications**

Item	Description			
Overview				
Product Model	UT-241-E			
Related	IEEE 802.15.4a			
Specifications	IEEE 802.15.1			
Charging Interface	4pin Magnetic charging			
Charging Voltage	DC 5V			
Instantaneous				
Power	< 1W			
Consumption				
Standby Time <sup>1</sup>	> 1 Month			
Refresh Rate	0.1~20 Hz (Adjustable)			
	Charging	Blue (flashing)		
Light Display	Full Charged	Blue (steady)		
Status	Battery low (working)	Red (flashing)		
	Normal power (working)	Green (flashing)		
RF Specifications (UWB)				
Working	3.24GHz~3.74GHz (channel1)			
	3.77GHz~4.24GHz (channel2)			
Frequency Band	6.24GHz~6.74GHz (channel5)			

	110 kbps		
Speed Rate	850 kbps		
	6.8 Mbps		
Output Power	-41.3dBm/MHz (Typical value)		
(25°C)	-13dBm/MHz (Maximum value)		
Channel	500MHz		
Bandwidth			
Antenna Gain	0.5 dBi		
RF Specification (BLE)			
Working	2.4GHz~2.4835GHz		
Frequency Band	2.4GHZ~2.4835GHZ		
Speed Rate	1Mbps		
Output Power	OdRm (Typical value)		
(25°C)	0dBm (Typical value)		
Antenna Gain	1.39 dBi		
Screen			
Size	1.54 inch		
Color	Black and White		
Resolution	esolution 200×200 dpi		
Refresh	Support partial refresh		
Show Content	SMS notification, time, step count, battery		
Supported	Simplified Chinese, Traditional Chinese,		

Language	English			
Software Specifications				
UWB Mode	TDoA			
	ToF			
Hibernate Mode	SmartSleep®			
Alarm Upload	SOS Active alarm			
	Low battery warning			
	Fall warning			
	Extremely long inactivity alarm			
	Vibration (prompt, alarm, strong alarm)			
Alarm Issuance	Buzzer (prompt, alarm, strong alarm)			
	Screen display			
Upgrade	UART, OTA			
Configuration	UART Interface, CLI Configuration			
Physical Specifica	ations	_		
Dimensions (mm)	57×87.5×7			
Weight (grams)	38			
Environmental Specifications				
Temperature	Working Temperature	-20°C~60°C		
	Storage Temperature	-30°C~70°C		
	Humidity	5%~95% Without		

		condensation
Waterproof and	IP65	
Dustproof	1100	
Flame Retardant	111 04 1/ 0	
Grade	UL94 V-0	
RoHs	Compatible	

# **Delivery Content**

Name	Description	Quantity	Part number
UT-241-E	Tag	1	AA01UT241E00
Magnetic	4pin magnetic		
Charging	charging cable,	1	Nil
Cable	800mm		