UT-226-E4 Datasheet

1 Introduction

UT-226-E4 is a displayable asset tag developed by Nanjing Woxu Communication Technology Co., Ltd. based on UWB technology. It supports two positioning methods: ToF and TDoA. The product is equipped with a 4.2-inch electronic ink screen, which supports the display of asset information, time and power, and the multi-page display supports button flipping. The product is powered by a large-capacity disposable battery, and the typical working time can reach more than 3 years.

UT-226-E4 supports high frequency UWB, which can be used in a wide range of areas around the world. The product IP rate is IP65 and can be used in industry 4.0, warehousing and logistics applications.

2 Main feature

- IEEE 802.15.4z UWB wireless

- High resolution electronic ink screen (E-ink)

- Asset information, time display, power display

- BLE 5.0

- IP65

3 Picture

4 Specification

Item	Description	
Overview		
Model	UT-226-E4	
Specification	IEEE 802.15.4z	
	IEEE 802.15.1	
Instantaneous power consumption	＜1W	
Typical working hours	＞3 years	
Refresh rate	0.1~20Hz (adjustable)	
LED	Low battery (working)	Red blink
	Normal power supply (work)	Green blink
RF Spec. (UWB)		
Working frequency	6.24GHz~6.74GHz（channel 5）	
	7.74GHz~8.24GHz（channel 9）	
Physical rate	850 kbps	
	6.8 Mbps	
Output power(25℃)	-41.3dBm/MHz	
Channel bandwidth	500MHz	
Antenna gain	0.5 dBi	
RF Spec. (BLE)		
Working frequency	2.4GHz～2.4835GHz	

Physical rate	2Mbps
Output power（25℃）	4dBM(maximum)
Antenna gain	1.39 dBi

Electronic ink screen (E-ink)

Size	4.2inch
颜色	Black and white (4 grey scales)
Resolution	400×300dpi
Display content	Asset information (text, barcode, QR code), time, power
Display language	Simplified Chinese, Traditional Chinese, English, Japanese

Software Spec.

UWB working mode	TDoA
	ToF
Sleep	Smart
Alarm upload	Low battery alarm
Alarm issuance	Electronic ink screen display
Upgrade	OTA（UWB o BLE）
Configuration	BLE

Physical Spec.

Size (mm)	109×98×24
Weight (gram)	165

Environment Spec.

Temperature	Working temperature: -20℃~60℃ (0℃~50℃ during display operation)
	Storage temperature -25℃~60℃
Humidity	Working humidity: 0%~90% non-condensing
RoHs	Compatible

Notes:

1. Typical work: UWB working mode TDOA, working frequency 1Hz, tag daily movement status 2h, screen refresh 10 times

5 Delivery content

Model	Specification	Quantity	Order number
UT-226- E4	Asset tag	1	AA01UT226E00

Accessories (Not included in the scope of delivery, please contact Woxu in advance if you need it)

Model	Specification	Order number
Battery	ER14505 parallel, 1.25 2P forward	AE0632154000