REAL-TIME ASSET TRACKER

KnightX 100 is advanced rechargeable battery powered tracker for wide ranging applications

KnightX 100 4G

LTE Cat 1 and GSM assets tracking devices for wide ranging applications

- Compact Size
- Waterproof IP67
- WIFI Positioning
- External Temperature Probe(optional)
- Motion Detection
- Low Battery Alarm
- MD5/AES
- SOS Panic Button
- MQTT Support
- BLE 5.1 for Wireless Sensors

165g (5.85oz)

-20℃ ~ 80℃ (-4°F ~ 176°F)

91.8mm*43.5mm*29.2mm (3.61"*1.71"*1.14")

Lithium-ion 6400mAh/3.7V

Certificates:

ANATEL · CTC · TDRA · CE · FC · NBTC

Standby Time

(2 hours active tracking per day):

10 Min Reporting	134 days
5 Min Reporting	88 days
1 Min Reporting	71 days

Battery life in different environment varies.
Refer to Battery Calculator for more details.

Cargo Tracking

People Tracking

Vehicle Tracking

PRODUCT SPECIFICATIONS

Network Specifications

Operating Band	LTE FDD Cat 1: Bl/B2/B3/B4/B5/B7 /B8/B12/B13/B17 /B18/B19/ B20/B25/B26/B28/B66
	LTE TDD Cat 1: B34/B38/B39/B40/B41
	GSM:850/900/1800/1900 MHz
Data Transmission	LTE-FDD:Max.lOMbps (DL), Max.SMbps (UL)
	LTE-TDD:Max.8.96Mbps(DL), Max.3.lMbps (UL)
	GPRS: Max. 85.6Kbps (DL), Max. 85.6Kbps (UL)

GNSS Specifications

GPSChipset	All-In-One GNSS Recei ver
Parallel GNSS	GPS + Glonass + Beidou + Galileo +QZSS
Receiver type	47 tracking/ 47 acquisitions –channel GNSS receiver
Sensitivity	Acquisition: -147 dBm
	Reacquisition: -159 dBm
	Tracking: -166 dBm
Horizontal Position Accuracy	Autonomous:< 1.5 m CEP
TIFF@ -130 dBm with (without) EPO	Cold Start:< 15s (30s)
	Warm Start:< 2s (25s)
	Hot Start:< 2s (2s)

Interfaces

GNSS	Internal
Indicator LED	Network and GNSS and Power
FOTA	Yes
Temperature Sensor	1 temperature sensor (Internal)
External Sensor	Optional (more details please check with sales)
BLE 5.1	Yes
WiFi	2.4 GHz 802.llb (Rx)
Sim Card	Nano Sim Card
Tracker Configuring	TypeC Connector
Panic Button	Support

General Specifications

Ingress Protection Rating	IP67
Dimensions	91.8mm*43.5mm*29.2mm("3.61 "1.71" "1.14")
Weight	165g(5.85oz)
Battery	Lithium-ion 6400mAh/ 3.7V
Standby Time (2 hours active tracking per day)	10 minutes reporting 134 days @temperature = 25℃
	5 minutes reporting 88 days@ temperature = 25℃
	1 minute reporting 71 days @temperature = 25℃
Charging Voltage	5VDC
Operating Temperature	20℃~80℃ (-4°F~176° F)
Storage Temperature	40℃ ~ +85℃ (-40° F~18S° F)

Air Interface Protocol

Transmit Protocol	TCP, UDP, MQT T, SMS
Protocol Check & Encryption Support	MDS/ AES128
BLE Accessory Support	Yes
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
Low Power Alarm	Report when backup battery is low
Data Roaming Control	Avoid additional data consumption

Accessories (optional)

Product	Photo for Reference
TA54 USB-A to USB-C cable	
TA70 USB-C to USB-C cable	
TA62 KnightX plastic bracket with screws (for screw, tape and zip tie mounting)	
KnightX plastic bracket (TA62) + magnet (TA39)	
TA57 Temperature probe (customizable length) range -67°F ~ 300°F (-55°C ~ 150°C)	
TA53 belt bag for people tracking	
TSTH-1B BLE temperature & humidity sensor	
TSDT1-B BLE Door Sensorn	