

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
- Data Security (MD5/AES)
- SOS** Panic Button
- MQTT Support

| 200g (7.05oz)

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

| -20°C ~ +80°C
(-4°F - 176°F)

| Rechargeable
Lithium-ion 6400mAh/ 3.7V

Certificates (planned):



*Please reach out to us if you need any certificates in particular

Standby Time

(2 hours active tracking per day):

10 Min Reporting	<div style="width: 100%; height: 10px; background-color: red;"></div>	240 days
5 Min Reporting	<div style="width: 80%; height: 10px; background-color: red;"></div>	130 days
1 Min Reporting	<div style="width: 20%; height: 10px; background-color: red;"></div>	45 days

Cargo Tracking



People Tracking



Vehicle Tracking



KnightX 100 SPEC

Network/Operating Band	
Operating Band	LTE FDD CAT 1: B1/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: 850/900/1800/1900M Hz
Data Transmission	LTE-FDD:Max.10Mbps (DL), Max.5Mbps (UL) LTE-TDD:Max.8.96Mbps(DL), Max.3.1Mbps (UL) GPRS: Max. 85.6Kbps (DL), Max. 85.6Kbps (UL)
GNSS Specifications	
GNSS Chipset	All-In-One GNSS Receiver
Parallel GNSS	GPS+Glonass+Galileo+Beidou+QZSS
Receiver Type	47 tracking / 47 acquisitions - channel GNSS receiver
Sensitivity	Acquisition: -147 dBm Reacquisition: -159 dBm Tracking: -166 dBm
Horizontal Position Accuracy (CEP)	Autonomous < 1.5m
TTFF @ -130 dBm with (without) EPO	Cold Start: < 15s (30s) Warm Start: < 2s (25s) Hot Start: < 2s (2s)
Interfaces	
Tracker Configuring	TypeC Connector
GNSS/Network/BLE/WiFi Antenna	Internal
Indicator LED	Network, GNSS and Battery
BLE 5.1	Yes
WIFI	2.4 GHz 802.11b (Rx)
External Sensor	Optional (more details please check with sales)
Temperature Sensor	1 temperature sensor (Internal)
Panic Button	Support
Sim Card	Nano Sim Card
FOTA	Yes
Specifications	
Ingress Protection Rating	IP67
Dimensions	91.8mm*43.5mm*29.2mm(3.61 *1.71" *1.14")
Weight	80(2.82oz)
Battery	Rechargeable Lithium-ion 6400mAh/ 3.7V
Standby Time (2 hours active tracking per day)	10 minutes reporting: 240 days 5 minutes reporting: 130 Days 1-minute reporting: 45 Days
Operating Temperature	-20°C~ +80°C (-4°F ~ 176°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ 185°F)
Charging Voltage	5V DC
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Protocol Check & Encryption Support	MD5/ AES128
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
BLE Accessory Support	Yes
Low Power Alarm	Report when backup battery is low

KnightX 100 SPEC

Air Interface Protocol	
SOS/Emergency Alarm	SOS alarm via pressing function button
Data Roaming Control	Avoid additional data consumption
Certifications	
Planned: FCC/CE/RCM/NBTC/TDRA/CITC/Anatel	