

Real-Time Asset Tracker

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



Knight 100 4G

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



- | 165g(5.85oz)
- | 91.8mm*43.5mm*29.2mm ("3.61" * 1.71" * 1.14")
- | -20°C ~ 80°C (-4°F ~ 176°F)
- | Lithium-ion 6400mAh/ 3.7V

Certificates:



- 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

Standby Time

(2 hours active tracking per day):



Cargo Tracking



People Tracking



Vehicle Tracking



PRODUCT SPECIFICATIONS

Network Specifications	
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:850/900/1800/1900 MHz
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	
GPS Chipset	All-In-One GNSS Receiver
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
TTFF @ -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 802.11b (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 215 days @ temperature = 25°C 5 minutes reporting 141 days @ temperature = 25°C 1 minute reporting 38 days @ temperature = 25°C
Charging Voltage	5V DC
Operating Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ 185°F)
Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Protocol Check & Encryption Support	MD5/ 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