

REAL-TIME ASSET TRACKER

KnightX 300 4G

Rechargeable LTE Cat-M1 / NB-IoT / GSM tracker for cargo, people and vehicle tracking, with North American carrier certifications.



WEIGHT
165 g (5.85 oz)



DIMENSIONS
91.8 × 43.5 × 29.2 mm



OPERATING TEMP.
-20 °C ~ +80 °C



BATTERY
Li-ion 6400 mAh / 3.7 V

Key features

-  Compact size
-  Waterproof IP67
-  External temperature probe (optional)
-  Motion detection, start/stop alerts
-  Low battery alarm
-  Data security (MD5 / AES)
-  SOS panic button
-  MQTT support
-  BLE 5.1 for wireless sensors
-  FCC, IC, PTCRB, Verizon, AT&T, T-Mobile certified

Standby time

10 min reporting		146 days
5 min reporting		96 days
1 min reporting		44 days

Based on 2 hours of active tracking per day. Actual battery life depends on the environment and network coverage.

Applications

CERTIFICATES



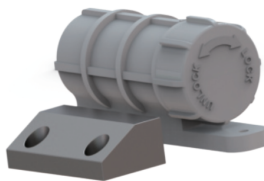
Technical specifications

Network	
Operating bands	LTE FDD Cat M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE FDD Cat NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85 GSM/EDGE: 850/900/1800/1900 MHz
Data transmission	eMTC: max. 300 kbps (DL), max. 375 kbps (UL) NB1: max. 32 kbps (DL), max. 70 kbps (UL) EDGE: max. 296 kbps (DL), max. 236.8 kbps (UL) GPRS: max. 107 kbps (DL), max. 85.6 kbps (UL)
GNSS	
GNSS chipset	All-in-one GNSS receiver
Parallel GNSS	GPS + GLONASS + BeiDou + Galileo + QZSS
Receiver type	47 tracking / 47 acquisition-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: < 5 s (28 s) Warm start: < 2 s (25 s) Hot start: < 1 s (1 s)
Interfaces	
Antennas (network, GNSS)	Internal
Indicator LED	Network, GNSS and power
FOTA	Yes
Temperature sensor	1 internal + optional external probe
External sensor	Optional (ask your Starcont advisor for details)
BLE 5.1	Yes
SIM card	Nano SIM
Tracker configuration	USB-C connector
Panic button	Supported
General	
Ingress protection	IP67
Dimensions	91.8 × 43.5 × 29.2 mm (3.61" × 1.71" × 1.14")
Weight	165 g (5.85 oz)
Battery	Lithium-ion 6400 mAh / 3.7 V
Standby time (2 h active tracking per day)	10 min reporting: 146 days 5 min reporting: 96 days 1 min reporting: 44 days
Charging voltage	5 V DC

Technical specifications (cont.)

General (cont.)	
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	MD5 / AES128
BLE accessory support	Yes
Scheduled timing / angle / distance report	Reports position and status at preset intervals
Low power alarm	Reports when the battery is low
Data roaming control	Avoids additional data consumption

Accessories (optional)

 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)	 TA62 + TA39 KnightX plastic bracket with magnet
 TA57 Temperature probe (custom length), range -55 °C ~ 150 °C (-67 °F ~ 300 °F)	 TA53 Belt bag for people tracking	 TSTH1-B BLE temperature & humidity sensor	 TSDT1-B BLE door sensor