

LONG-LIFE BATTERY ROBUST GPS ASSET TRACKER

SentryX 100 4G

Robust, waterproof standalone LTE Cat 1 + 2G asset tracker – up to 25+ years of battery life (57,000 mAh version).



WEIGHT
315 / 475 / 665 g



DIMENSIONS
124.7 / 187.7 / 250.7 ×
56 × 56 mm



OPERATING TEMP.
-30 °C ~ +85 °C



BATTERY
19 000 / 36 000 / 57
000 mAh, 3.6 V

Key features

-  4G Cat 1 + 2G
-  Compact size
-  IP67 waterproof
-  Robust structure for outdoor use
-  Super long battery life
-  Stolen recovery mode
-  Low battery alarm
-  MQTT support
-  Tamper alert
-  BLE 5.3
-  GPS → WiFi scan → LBS positioning

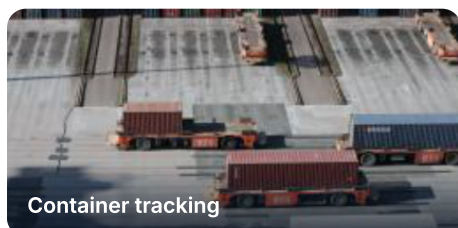
Standby time (one report per day, 19,000 mAh)

GPS off		17 years
GPS on		15 years

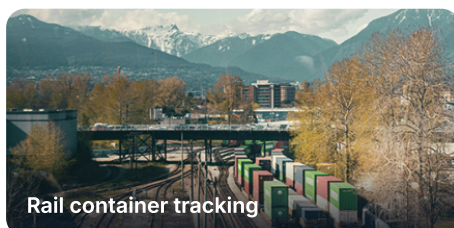
Assumes LTE Cat 1, CSQ greater than 15, 25 °C, no sensors. Battery life varies with the environment – ask your Starcont advisor.

Applications

CERTIFICATES (PLANNED)



Container tracking



Rail container tracking



Trailer tracking

Technical specifications

Network			
Operating bands	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. 10 Mbps (DL), max. 5 Mbps (UL) LTE-TDD: max. 8.96 Mbps (DL), max. 3.1 Mbps (UL) GPRS: max. 85.6 kbps (DL), max. 85.6 kbps (UL)		
GNSS			
GNSS chipset	All-in-one GNSS receiver		
GNSS system	GPS + GLONASS + BeiDou + Galileo + QZSS		
Receiver type	47 tracking / 47 acquisition-channel GNSS receiver		
Horizontal position accuracy	Autonomous: < 1.5 m CEP		
TTFF @ -130 dBm with (without) EPO	Cold start: < 15 s (29 s) Warm start: < 2 s (25 s) Hot start: < 2 s (1 s)		
Interfaces			
Data transmission	USB-C cable		
Network, GNSS, WiFi antenna	Internal only		
Indicator LED	Network, GNSS		
FOTA	Yes		
Temperature sensor	Built-in		
Versions			
	PBN:01PBN:02PBN:03		
Battery (non-rechargeable, 3.6 V)	19,000 mAh (standard)	36,000 mAh (optional)	57,000 mAh (optional)
Dimensions	124.7 × 56 × 56 mm	187.7 × 56 × 56 mm	250.7 × 56 × 56 mm
Weight	315 g (11.12 oz)	475 g (16.76 oz)	665 g (23.46 oz)
General			
Waterproof	IP67		
Standby time (19,000 mAh, 25 °C)	2.8 years @ every 2 h reporting 10 years @ every 12 h reporting 15 years @ every 24 h reporting Battery capacity drops at low temperatures.		
Data communication	USB-C cable		
Operating temperature	-30 °C ~ +85 °C (-22 °F ~ 185 °F)		

Technical specifications (cont.)

Air interface protocol	
Transmit protocol	TCP, UDP, MQTT, SMS
Data security & encryption	MD5 / AES128
Scheduled timing report	Reports position and status at preset intervals
Geo-fence	Up to 64 internal geo-fence regions
Certifications (planned)	FCC, CE, RCM, CITC, TDRA, NBTC, Anatel