

LONG-LIFE BATTERY ROBUST GPS ASSET TRACKER

WarriorX 300 4G

Robust, waterproof standalone LTE Cat-M1 / NB-IoT + 2G asset tracker – up to 4.4 years on a replaceable battery.



Key features

-  4G Cat-M1 + 2G
-  Compact size
-  IP67 waterproof
-  Robust structure for outdoor use
-  Super long battery life
-  Stolen recovery mode
-  Low battery alarm
-  MQTT support
-  Tamper alert
-  Replaceable non-rechargeable battery

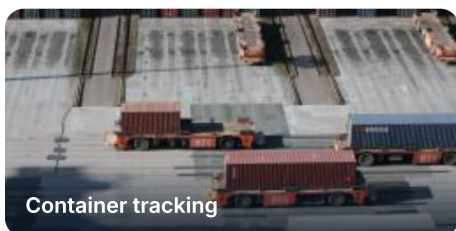
Standby time (one report per day)

GPS off		4.4 years
GPS on		3.3 years

Assumes LTE Cat-M1 operation, CSQ greater than 15, ambient temperature of 25 °C, no sensors.

Applications

CERTIFICATES (PLANNED)



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
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: < 5 s (29 s) Warm start: < 2 s (25 s) Hot start: < 1 s (1 s)
Interfaces	
Data transmission	4-pin USB-C port
Network, GNSS, WiFi antenna	Internal only
Indicator LED	Network, GNSS
FOTA	Yes
Temperature sensor	1 temperature sensor
General	
Waterproof	IP67
Dimensions	82.8 × 66.9 × 35.7 mm (3.26" × 2.63" × 1.40")
Weight	160 g (5.65 oz)
Battery	Non-rechargeable 4000 mAh / 3.0 V (8000 mAh optional)
Standby time (LTE Cat-M1, CSQ > 15, 25 °C, no sensors)	0.35 year @ every 2 h reporting 1.94 years @ every 12 h reporting 3.5 years @ every 24 h reporting
Data communication	USB-C cable
Operating temperature	-30 °C ~ +80 °C (-22 °F ~ 176 °F)
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

Technical specifications (cont.)

Air interface protocol (cont.)

Certifications (planned)

FCC, IC, PTCRB, AT&T, US Cellular, Verizon, T-Mobile