

4G HARDWIRED GNSS TRACKER

Hidden installation for all objects with power

PioneerX 100 4G

LTE Cat-1 + 2G wired tracker for wide ranging applications.



- 55g (1.94 oz)
- 105.7 × 57.6 × 16.8 mm (4.16″ × 2.26″ × 0.66″)
- 5V to 32V DC
- -30°C ~ +80°C (-22°F ~ 176°F)

- Multiple I/Os
- Driving Behavior Monitoring
- Crash Detection
- Firmware Over the Air
- Geo-fences
- Motion Detection
- BLE 4.2
- 3 Axis Accelerometer
- Panic Button

Certificates (Completed):

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







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 (2G):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 Specifications	
GNSS Chipset	All-In-One GNSS receiver
Parallel GNSS	GPS + Beidou + Galileo + QZSS (SBAS)
Receiver type:	24 tracking / 64 acquisitions- channel GNSS receiver
Sensitivity	Acquisition: -148 dBm Reacquisition: -159 dBm Tracking: -162 dBm
Horizontal Position Accuracy	Autonomous: < 1.5 m CEP
TTFF @ -130 dBm with (without) EASY	Cold Start: < 20s (30s) Warm Start: < 2 (2s) Hot Start: < 2s (2s)
Interfaces	
Digital Input (ACC)	For ignition detection (input range: 0-32V, 5≤: ignition on, ≤2V ignition off, from 2V to 5V: unstable status)
Digital Input (SOS)	Panic SOS button (connect to ground trigger alert)
Digital Output	2 digital outputs for relay control
Netowork, GNSS, BLE, WiFi Antenna	Internal only
Indecator LED	Network and GNSS
FOTA	Yes
Temperature Sensor	1 temperature sensor
BLE 4.2	Yes
SIM Card	Nano SIM
WiFi	2.4 GHz 802.11b (Rx)
Tracker Configuring	Type-C Connector
General Specifications	
Ingress Protection Rating	IP41
Dimensions	105.7 × 57.6 × 16.8 mm (4.16″ × 2.26″ × 0.66″)
Weight	55g (1.94oz)
Operating Voltage	5~32V DC
Operating Temperature	-30°C ~ +80°C (-22°F ~ 176°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ 185°F)

Product Specifications

Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Protocol Check & Encryption Support	MD5 / AES256
BLE Accessory Support	Yes
Scheduled Timing / angle / distance Report	Report position and status at preset intervals
External Power Status Alarm	Report when external power is disconnected
Speeding Alarm	Report when speed exceed the pre-set value
Towling Alarm	From internal 3-axis acceleration
Remote Control	Remote output control
Network Signal Jamming Detection	Report network jamming
Data Remote Control	Avoid additional data consumption
Driving Behavior Monitoring	Harsh braking, acceleration and turning events
Crash Detection	Accident data collection for reconstruction and analysis
Industry Certifications	
FCC / CE / RCM / NBTC / TDRA / CITC / Emark / Anatel	

Optional Accessories List

Product SKU	Description	Photo for Reference
TSTH1-B	BLE 5.0 Wireless Temperature and Humidity Sensor	
TSDT1-B	BLE 5.0 Wireless Door and Temperature Sensor	
TSR1-B	BLE 5.0 Wireless Relay	
T-button	BLE 5.1 Key Fob & Panic button	
T-sense	BLE 5.1 IP67 temp&movement&door sensor	
T-hub	BLE 5.1 IO extension hub	
T-one	BLE 5.1 Probe temp or temp&humi sensor extender	