4G HARDWIRED GNSS TRACKER

Hidden installation for all objects with power

PioneerX 100 ^{4G}

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

TOP SIDE

TOPFLY tech
Model:PioneerX 100

OPEN ▶

- ⚡ Multiple I/Os
- 🎚 Driving Behavior Monitoring
- 🚗 Crash Detection
- ☁ Firmware Over the Air
- ⬡ Geo-fences
- ▌ Motion Detection
- ❊ BLE 4.2
- ⤢ 3 Axis Accelerometer
- 🆘 Panic Button

| 55g (1.94oz) | 105.7mm*57.6mm*16.8mm (4.16" *2.26" *0.66") |
| 5V to 32V DC | -30℃ ~ +80℃ (-22°F ~ 176°F) |

Certificates(planned):

ANATEL E24 CITC TDRA ⟁ CE FC 🦅

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

Product Specifications

Network/Operating Band	
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	
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 Tracking: -162 dBm Reacquisition: -159 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
Network, GNSS, BLE, WiFi Antenna	Internal only
Indicator 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	105.7mm*57.6mm*16.8mm(4.16" *2.26" *0.66")
Weight	55g (1.94oz)
Battery	Li-Polymer 200 mAh/ 3.7V
Operating Voltage	5V to 32V DC
Operating Temperature	-30℃ ~ +80℃ (-22°F ~ 176°F)
Storage Temperature	-40℃ ~ +85℃ (-40°F ~ 185°F)

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
Towing Alarm	From internal 3-axis acceleration

Product Specifications

Air Interface Protocol	
Remote Control	Remote output control
Network Signal Jamming Detection	Report network jamming
Data Roaming 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	