

4G HARDWIRED GNSS TRACKER

Hidden installation for all objects with power

PioneerX 101 ^{4G}

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



Weight | 50g (2.47 oz)

Dimensions | 102.6 × 42.6 × 13.0 mm
(4.04" × 1.67" × 0.51")

Temperature | -30°C ~ +80°C
(-22°F ~ 176°F)

Voltage | 7V to 100V DC

Certificates (Completed):



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



Compact Size



Driving Behavior Monitoring



Crash Detection



Firmware Over the Air



Geo-fences



Motion Detection



BLE 4.0



Configurable 1-Wire



IP67 (Optional)



3 Axis Accelerometer



Panic Button (BLE)

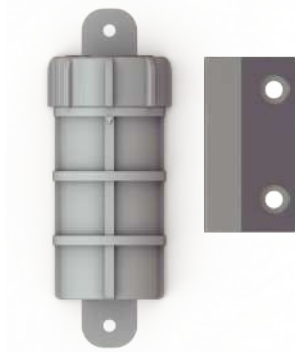


Product Specifications

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					
Models	PN:01	PN:02	PN:03	PN:04	PN:05
Digital Input*	-	1	1	1	1
Digital Output	-	1	1	-	1
Configurable Input (Digital/Analog/Neg Trigger) *	-	2	-	-	-
1-Wire Power 3.3V DC	-	-	1	-	-
1-Wire Data	-	-	1	-	-
RS232 Power 5V DC	-	-	-	1	-
RS232 TX	-	-	-	1	-
RS232 RX	-	-	-	1	-
CAN-H	-	-	-	-	1
CAN-L	-	-	-	-	1
Battery	Li-Polymer 200mAh/ 3.7V	Li-Polymer 200mAh/ 3.7V	Li-Polymer 200mAh/ 3.7V	Li-Polymer 300mAh/ 3.7V	Li-Polymer 200mAh/ 3.7V
IP Rating	IP67	IP67	IP67	IP41	IP67
*For ignition detection (input range 0-32V, 5≤: ignition on, ≤2V ignition off, from 2V to 5V: unstable status) *Can be configured to digital input or analog input (0~32V) or negative trigger input					
General Specifications					
Dimensions		102.6 x 42.6 x 13.0 mm (4.04" x 1.67" x 0.51")			
Weight		50g (2.47oz)			
Operating Voltage		7~100V DC			
Operating Temperature		-30°C ~ +80°C (-22°F ~ 176°F)			
Storage Temperature		-40°C ~ +85°C (-40°F ~ 185°F)			
Internal Memory		8MB			

General Features	
Operating Voltage	7V to 100V DC
Network, GNSS, BLE, WiFi Antenna	Internal only
Indicator LED	Network and GNSS
FOTA	Yes
Temperature Sensor	Internal temperature sensor
BLE 5.0	Yes
WiFi	2.4 GHz 802.11b (Rx)
Tracker Configuring	Type-C Connector
Waypoints	40,000 Waypoints
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
Remote Control	Remote output control
Network Signal Jamming Detection	Report network jamming
Data Roaming Control	Avoid additional data consumption
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g., harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis
Industry Certifications (Completed)	
FCC/CE/RCM/RoHS/NBTC/TDRA/CITC/Anatel/IP67/ICASA	

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	