

TorchX 310 OBDII Tracker



SPECS



70g (2.5oz)



52.8 x 47.8 x 24.8mm



-30°C ~+80°C

Introduction

The tracker is using GNSS & LTE technologies and could collect device coordinates then transfer them via LTE network to the server. It provides customer with cost-effective, efficient and safety-management. It has been widely used in commercial transportation, company vehicle fleet management, intelligent transportation, logistics, car rental, engineering machinery, marine transportation and other segments.

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SPECIFICATION

LTE Specifications

Operating Band	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. 588 (DL), Max. 1119 (UL) NB1: Max. 32Kbps (DL), Max. 70Kbps (UL) NB2: Max. 127 (DL), Max. 158.5 (UL) EDGE: Max. 296Kbps (DL), Max. 236.8Kbps (UL) GPRS: Max. 107Kbps (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 Reacquisition: -159 dBm Tracking: -162 dBm
Position Accuracy in open sky	Autonomous: < 1.5m CEP
TTFF @ -130 dBm with (without) EASY™	Cold Start: < 20s (30s) Warm Start: < 2 (2s) Hot Start: < 2s (2s)

Interfaces

OBDII Connector (The function varies under different configurations)	ISO 15765, SAE J1939, ISO 14230(KWP2000), ISO9142-2, SAE J1708
SIM card	Nano SIM card slot
LTE/GNSS/BLE Antenna	Internal only
Indicator LED	Network, GNSS and Diagnostic
USB	Debug
FOTA	Yes
BLE (Bluetooth Low Energy)	5.0
Buzzer	Event triggering
WiFi	2.4 GHz 802.11b (Rx)
Tracker Configuring	Micro USB Connector

General Specifications

Ingress Protection Rating	IP41
Dimensions	52.8mm x 47.8mm x 24.8mm (2.08" x *1.88" x 0.98")
Weight	70g (2.5oz)
Backup Battery	Li-Polymer 100 mAh/3.7V
Operating Voltage	7V to 32V DC
Operating Temperature	-30°C ~ +80°C(-22°F ~ 176°F)
Storage Temperature	-40°C ~ +85°C (-40°F ~ 185°F)
ELD	Support

SPECIFICATION

Air Interface Protocol	
Transmit Protocol	TCP, UDP, MQTT, SMS
Data Security & Encryption Option	MD5/ AES128
BLE Accessory Support	Yes
OBDII Data Reading	Yes
Diagnostic Trouble Code (DTC)	Read and Erase
Scheduled Timing/angle/distance Report	Report position and status at preset intervals
External Power Status Alarm	Report when external power is disconnected
Low Power Alarm	Report when backup battery is low
Network Signal Jamming Detection	Report network jamming
Driving Behavior Monitoring	Aggressive driving behavior detection, e.g., harsh braking and acceleration
Crash Detection	Accident data collection for reconstruction and analysis
Data Roaming Control	Avoid additional data consumption
Industry Certifications (Planned)	
FCC, PTCRB, IC, AT&T, US Cellular, T-Mobile	



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