

PLUG & TRACK – NO WIRES REQUIRED

TorchX 100

4G

LTE Cat 4 / 3G / 2G OBD-II tracker for light and heavy-duty vehicles, with ELD support and WiFi hotspot sharing. Installed in seconds.



Key features

-  ELD ready
-  WiFi hotspot
-  Light and heavy vehicle data reading
-  Firmware over the air (FOTA)
-  Built-in buzzer for driver coaching
-  Global bands supported
-  Driving behavior monitoring
-  Crash detection
-  BLE 4.1
-  Towing alarm



WEIGHT
73 g (2.6 oz)



DIMENSIONS
52.8 × 47.8 × 24.8 mm



POWER SUPPLY
7 – 32 V DC



OPERATING TEMP.
-30 °C ~ +80 °C

Applications



Technical specifications

Network	
Operating bands	LTE FDD Cat 4: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66 LTE TDD Cat 4: B34/B38/B39/B40/B41 WCDMA: B1/B2/B4/B5/B6/B8/B19 GSM/EDGE: 850/900/1800/1900 MHz
Data transmission	LTE: 150 / 50 Mbps (DL/UL) HSPA+: 42 / 5.76 Mbps WCDMA: 384 / 384 kbps EDGE: 236.8 / 236.8 kbps GPRS: 85.6 / 85.6 kbps
GNSS	
GNSS chipset	Qualcomm Gen 8C GNSS receiver
Parallel GNSS	GPS + GLONASS + BeiDou
Receiver type	33 tracking / 99 acquisition-channel GNSS receiver
Sensitivity	Acquisition: -149 dBm Tracking: -163 dBm
Position accuracy in open sky (CEP-50)	Autonomous: < 2 m
TTFF	Cold start: < 29 s Warm start: < 27 s Hot start: < 1 s
WiFi hotspot	
WiFi band	2.412 ~ 2.484 GHz, 5.17 ~ 5.825 GHz
Max. data rate	802.11b: 11 Mbps · 802.11g: 54 Mbps 802.11n HT20: 72.2 Mbps · HT40: 150 Mbps 802.11ac HT20: 86.7 Mbps · HT40: 200 Mbps · HT80: 433.3 Mbps
Transmitting power	802.11b: 18 dBm · 802.11g: 15 dBm 802.11n HT20: 11 dBm · HT40: 10 dBm 802.11ac HT20: 13 dBm · HT40: 9 dBm · HT80: 8 dBm
Rx sensitivity	802.11b: -94 dBm · 802.11g: -78 dBm 802.11n HT20: -69 dBm · HT40: -63 dBm 802.11ac HT20: -65 dBm · HT40: -59 dBm · HT80: -56 dBm
Interfaces	
OBD-II connector (functions depend on configuration)	ISO 15765, SAE J1939, ISO 14230 (KWP2000), ISO 9142-2, SAE J1708
SIM card	Nano SIM
LTE / GNSS / WiFi / BLE antenna	Internal only
Indicator LED	Network, GNSS, WiFi and diagnostic
FOTA	Yes
BLE	4.1
USB	Configuration, upgrade and debug
Buzzer	Event triggering

Technical specifications (cont.)

General	
Dimensions	52.8 × 47.8 × 24.8 mm (2.08" × 1.88" × 0.98")
Weight	73 g (2.6 oz)
Backup battery	Li-Polymer 100 mAh / 3.7 V
Operating voltage	7 – 32 V DC
Operating temperature	-30 °C ~ +80 °C (-22 °F ~ 176 °F)
Storage temperature	-40 °C ~ +85 °C (-40 °F ~ 185 °F)
Air interface protocol	
Transmit protocol	TCP, UDP, MQTT, SMS
Data security & encryption	MD5 / AES128
BLE accessory support	Yes
OBD-II data reading	Yes
Diagnostic trouble codes (DTC)	Read and erase
Scheduled timing / angle / distance report	Reports position and status at preset intervals
External power status alarm	Reports when external power is disconnected
Low power alarm	Reports when the backup battery is low
Network jamming detection	Reports network jamming
Driving behavior monitoring	Aggressive driving detection, e.g. harsh braking and acceleration
Crash detection	Accident data collection for reconstruction and analysis
Data roaming control	Avoids additional data consumption
Certifications (planned)	CE, RCM, IC, FCC, PTCRB, AT&T, US Cellular, T-Mobile, Verizon, TDRA, NBTC, CITC, Anatel