

PLUG & TRACK – NO WIRES REQUIRED

TorchX 310 4G

LTE Cat-M1 / NB-IoT / GSM OBD-II tracker for light and heavy-duty vehicles, with ELD support. Plug in within seconds.



Key features

-  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 5.0
-  Towing alarm
-  ELD supported



WEIGHT
70 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 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 kbps (DL), max. 1119 kbps (UL) NB1: max. 32 kbps (DL), max. 70 kbps (UL) NB2: max. 127 kbps (DL), max. 158.5 kbps (UL) EDGE: max. 296 kbps (DL), max. 236.8 kbps (UL) GPRS: max. 107 kbps (DL), max. 85.6 kbps (UL)
GNSS	
GNSS chipset	All-in-one GNSS receiver
Parallel GNSS	GPS + BeiDou + Galileo + QZSS (SBAS)
Receiver type	24 tracking / 64 acquisition-channel GNSS receiver
Sensitivity	Acquisition: -148 dBm Reacquisition: -159 dBm Tracking: -162 dBm
Position accuracy in open sky (CEP-50)	Autonomous: < 1.5 m
TTFF	Cold start: < 20 s (30 s) Warm start: < 2 s (2 s) Hot start: < 2 s (2 s)
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 / BLE antenna	Internal only
Indicator LED	Network, GNSS and diagnostic
FOTA	Yes
BLE	5.0
USB	Micro USB – configuration, upgrade and debug
Buzzer	Event triggering
General	
Dimensions	52.8 × 47.8 × 24.8 mm (2.08" × 1.88" × 0.98")
Weight	70 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)

Technical specifications (cont.)

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
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)	FCC, PTCRB, IC, AT&T, US Cellular, T-Mobile