



# TBOX

GPS tracking device with OBD-II, 4G/LTE, Wi-Fi hotspot and Bluetooth



## Product overview

FleetUp TBOX is a smart GPS tracker with built-in GPS and 4G/LTE modules which can be used for a variety of vehicle tracking applications.

FleetUp TBOX monitors vehicle location, provides remote diagnostics and detects driving behavior, in a single OBD-II compatible device.

FleetUp TBOX can connect to as many as 6 peripheral devices with its onboard I/O interfaces and read diagnostic data from the vehicle ECU with its optional engine module.

FleetUp TBOX also supports CANBUS and J1939 interfaces for collecting vehicle diagnostics data.

FleetUp TBOX automatically uploads GPS tracking data and fault codes to the FleetUp's SaaS platform for further review and analysis.

FleetUp TBOX is the ideal solution for integrating GPS tracking and remote diagnostics capabilities into a single, easy to install, cost-effective device.

## Hardware features

- SAE J1939
- 4G Wi-Fi Hotspot
- Up to 8 Wi-Fi-enabled devices can be connected to share high speed 4G/LTE network connection
- OBD-II GPS Tracker: Report real time location according the time interval, distance, heading change, etc.
- Bluetooth (BLE): ELD/GPS Tracker uses a Quectel 4G communication module with PTCRB, ANATEL, CE, and FCC certifications
- Hours of service (HOS)
- Fuel usage, mileage monitoring, and trip fuel consumption
- Engine RPM
- Engine speed
- VIN code
- Recent ACC Ignition ON Time
- Engine Running Total Distance
- Distance Of The Last Positioning
- Fault Indicator Light Status
- Diagnostic Event Indicator Status
- Latitude & Longitude

## Specifications

<b>Size (mm)</b>	140 (L) x 74 (W) x 28 (H)
<b>Wi-Fi</b>	100g
<b>Digital input</b>	6 digital inputs, one for ignition detection input, one for SOS button input, four for general use
<b>Digital output</b>	5 digital outputs, one for relay control, four for general use
<b>Analog input</b>	3 analog inputs
<b>Engine</b>	2 high speed CAN bus
<b>Communication port</b>	One RS-232 port and one RS-485 for external device connection or one USB port for internet access
<b>Audio</b>	One differential MIC input, one differential speaker output
<b>Configuration port</b>	Micro-USB
<b>SIM card socket</b>	Micro SIM, Push-Push type
<b>Data transmission</b>	Packet data (GPRS/HSPA/LTE) and SMS
<b>Positioning method</b>	GPS
<b>Storage</b>	8MB FLASH, up to 96,000 GPS data storage
<b>CAN protocol</b>	ISO 15765-4, SAE J1939
<b>Working voltage</b>	9-36VDC
<b>Working current</b>	Max.: <200mA@13.8/27.6VDC Average: <150mA@13.8/27.6VDC Sleep mode: <5mA@12/24VDC
<b>Working temperature</b>	-30°C ~ +70°C
<b>Storage temperature</b>	-40°C ~ +85°C
<b>Backup battery</b>	500mAH

<b>GPS</b>	<ul style="list-style-type: none"> <li>Receiving satellite frequency: 1575.42mhz (GPS L1)</li> <li>Cold start: about 23s (typ.)</li> <li>Warm start: about 2s (typ.)</li> <li>Hot start: &lt;1 (typ.)</li> <li>Positioning accuracy: <ul style="list-style-type: none"> <li>Horizontal position accuracy: 3m CEP (typ.)</li> <li>Speed accuracy: 0.1 m/s (typ.)</li> </ul> </li> <li>Receiving sensitivity: <ul style="list-style-type: none"> <li>Trace: -165dbm (typ.)</li> <li>Capture: -148dbm (typ. Cold start)</li> </ul> </li> <li>Refresh frequency: 1Hz</li> </ul>
<b>Wi-Fi</b>	<ul style="list-style-type: none"> <li>Frequency: 2.4-2.4835GHz</li> <li>WLAN Standard: 802.11b/g/n</li> <li>Transmission Data: <ul style="list-style-type: none"> <li>65Mbps@802.11n</li> <li>54Mbps@802.11g</li> <li>11Mbps@802.11b</li> </ul> </li> </ul>
<b>Cellular</b>	<ul style="list-style-type: none"> <li>Frequency (T-229LE, Europe): <ul style="list-style-type: none"> <li>FDD LTE B1/B3/B5/B7/B8/B20</li> <li>WCDMA B1/B5/B8</li> <li>GSM 900/1800MHz</li> </ul> </li> <li>Frequency (T-229LA, US) <ul style="list-style-type: none"> <li>FDD LTE B2/B4/B12</li> <li>WCDMA B2/B4/B5</li> </ul> </li> <li>Data: <ul style="list-style-type: none"> <li>LTE-FDD Max 150Mbps (DL)/50Mbps (UL)</li> <li>LTE-TDD Max 130Mbps (DL)/35Mbps (UL)</li> <li>HSPA + Max 42Mbps (DL)/5.76Mbps (UL)</li> </ul> </li> <li>Network protocol: Embedded TCP/IP stack</li> </ul>
<b>6-axis IMU</b>	Driving behavior detection
<b>LED Indication</b>	GPS/cellular/power indication
<b>Cellular antenna</b>	External
<b>Wi-Fi antenna</b>	Internal
<b>GPS antenna</b>	Internal or external
<b>Humidity</b>	5% ~ 95% (no fog)