

Amber Insight T450-LA

Advanced OBDII Tracker



Use Cases



Light Vehicles



Heavy Duty Transport



Insurance Telematics (UBI)



Courier Delivery
Services

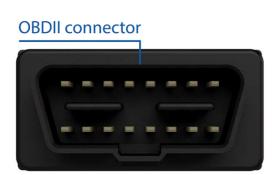


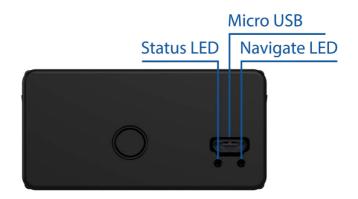
Rental and Leasing

LTE CAT1 ADVANCED PLUG AND PLAY TRACKER WITH BLUETOOTH

AIT 450-LA represents next step in communication technology – this is the first Plug and Track LTE OBD device with GNSS and Bluetooth connectivity. Possibility to read OBD II parameters, effortless installation and detailed accelerometer data provides a compelling solution. This is perfect tracker for a wide range of applications – fleet management of light commercial vehicles, car rental & leasing, driver log-book, insurance telematics (UBI) and so on. Device supports various Bluetooth Low Energy sensors, beacons, firmware and configuration update via Bluetooth.







Module

| Name | AIT 450-LA |
|------------|---|
| Technology | LTE(CAT1)/3G(UMTS/HSPA)/2G(GSM/GPRS)/GNSS/BLUETOOTH |

GNSS

| GNSS | GPS, GLONASS, GALILEO, BEIDOU, QZSS, AGPS | |
|----------------------|---|--|
| Receiver | Tracking: 33 | |
| Tracking sensitivity | -165 dBM | |
| Position accuracy | < 2.5 CEP | |
| Velocity accuracy | < 0.1m/s (within +/- 15% error) | |
| Hot start | <1s | |
| Warm start | < 25 s | |
| Cold start | < 35 s | |

Cellular

| Technology | LTE CAT1, UMTS/HSPA+ and GSM/GPRS/EDGE |
|---------------|--|
| 2G bands | EG91-EX: GSM: B3/B8 |
| 3G bands | EG91-EX: WCDMA: B1/B8 |
| 4G bands | EG91-EX: LTE FDD: B1/B3/B7/B8/B20/B28 |
| Data transfer | LTE: LTE FDD: Max 10Mbps (DL)/Max 5Mbps (UL) |
| | UMTS: WCDMA: Max 384Kbps (DL)/Max 384Kbps (UL) |
| | GSM: GPRS: Max 107Kbps (DL)/Max 85.6Kbps (UL) |
| Data support | SMS (text/data) |



Power

| Input voltage range | 10 - 30 V DC with overvoltage protection |
|--------------------------|--|
| Internal Back-up battery | 170 mAh Li-lon battery 3.7 V (0.63 Wh) |

Bluetooth

| Specification | 4.0 + LE |
|-----------------------|--|
| Supported peripherals | Temperature and Humidity sensor, OBDII dongle, Inateck Barcode |
| | Scanner, Universal BLE sensors support |

Physical specification

| Dimensions | 67,2 × 49,6 × 25 mm (L x W x H) |
|------------|---------------------------------|
| Weight | 63 g |

OBD Interface

| Data | K-Line, CAN bus data | |
|--------------|---|--|
| Data reading | Up to 32 vehicle onboard parameters, supported OBD protocols: | |
| | SAE J1850 PWM (41.6 kbaud) | |
| | SAE J1850 VPW (10.4 kbaud) | |
| | ISO 9141-2 (5 baud init, 10.4 kbaud) | |
| | ISO 14230-4 KWP (5 baud init, 10.4 kbaud) | |
| | ISO 14230-4 KWP (fast init, 10.4 kbaud) | |
| | ISO 15765-4 CAN (11 bit ID, 250 kbaud) | |
| | ISO 15765-4 CAN (11 bit ID, 500 kbaud) | |
| | ISO 15765-4 CAN (29 bit ID, 250 kbaud) | |
| | ISO 15765-4 CAN (29 bit ID, 500 kbaud) | |

Interface

| Connection | OBDII Socket |
|----------------|-----------------------------|
| GNSS antenna | Internal High Gain |
| GSM antenna | Internal High Gain |
| USB | 2.0 Micro-USB |
| LED indication | 2 status LED lights |
| SIM | Micro-SIM |
| Memory | 128MB internal flash memory |



Operating environment

| Operating temperature (without battery) | -40 °C to +85 °C | |
|---|------------------------------|---|
| Storage temperature (without battery) | -40 °C to +85 °C | |
| Operating humidity | 5% to 95% non-condensing | |
| Ingress Protection Rating | IP41 | |
| Battery charge temperature | 0 °C to +45 °C | |
| Battery discharge temperature | -20 °C to +60 °C | 7 |
| Battery storage temperature | -20 °C to +45 °C for 1 month | |
| | -20 °C to +35 °C for 6 month | |
| | | |

Features

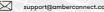
| Sensors | Accelerometer |
|-----------------------------------|---|
| Scenarios | Green Driving, Over Speeding detection, Jamming detection, GNSS Fuel Counter, Excessive Idling detection, Unplug detection, Towing detection, Crash detection, Auto Geofence, Manual Geofence, Trip |
| Sleep modes | GPS Sleep, Online Deep Sleep, Deep Sleep, Ultra Deep Sleep |
| Configuration and firmware update | FOTA Web, FOTA, Amber Configurator (USB, Bluetooth), FMBT mobile application (Configuration) |
| SMS | Configuration, Events, Debug |
| GPRS commands | Configuration, Debug |
| Time Synchronization | GPS, NIT <mark>Z, NTP</mark> |
| Fuel monitoring | ODBII (depends on vehicle model) |
| Ignition detection | Acceleromet <mark>er, E</mark> xternal Power Voltage, Engine RPM |



Need help? Contact 24/7 live support!





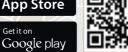




Chat via website www.ambercon

Works with Android phones and tablets, iPhone, iPad. Compatible with Chrome, Mac and PC web browsers.













Amber Connect