Amber Insight T251
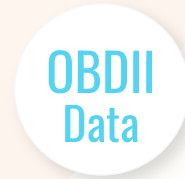## ADVANCED PLUG AND TRACK DEVICE WITH BLUETOOTH

Our smallest GNSS tracker for simple connected car applications

Crash detection according to accelerometer data

Bluetooth for external devices and Low Energy sensors

OBDII Data

Allows reading CAN bus data from vehicle ECU

ADVANCED PLUG AND TRACK DEVICE WITH BLUETOOTH

Amber Insight T251 is ultra-small OBDII Plug and Play device with GNSS, GSM, BLE 4.0 connectivity CAN bus data reading capability. It is a perfect tracker for a wide range of use cases - including fleet management of light commercial vehicles, driver log-book, insurance telematics (UBI), car rental & leasing and others. Main feature of AIT251 is OBDII standard data reading from vehicles on-board computer. Combined with effortless, low cost integration it becomes easy and powerful solution. Device supports various Bluetooth Low energy sensors, beacons, hands-free headset, firmware and configuration update via Bluetooth.

amber connect
Experience Telematics AI

USE CASES
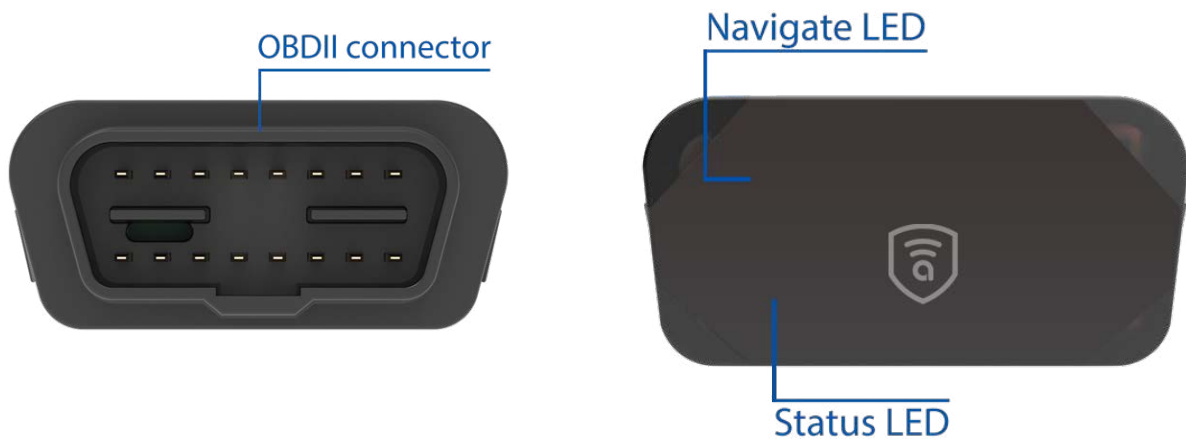
Fleet Management

Insurance Telematics (UBI)

Rental & Leasing

Driver Log-book

Connected Car

OBDII connector

Navigate LED

Status LED

Module

Name	AIT 251
Technology	GSM/GPRS/GNSS/BLUETOOTH

GNSS

GSNN	GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
Receiver	33 channel
Tracking sensitivity	-165 dBM
Position accuracy	< 2.5 CEP
Velocity accuracy	< 0.1M/S (WITHIN +/- 15% ERROR)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

Cellular

Technology	GSM
2G bands	Quad-band 850/900/1800/1900 MHz
Data transfer	GPRS Multi-Slot Class 12(up to 240 kbps)
Data support	SMS (text/data)

Power

Input voltage range	12 – 30 V DC with overvoltage protection
Back-up battery	3.7 V 45 mAh

Physical specification

Dimensions	52.6 x 29.1 x 26 mm (L x W x H)

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	Nano-SIM

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)

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	+10 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage temperature	-20 °C to 45 °C for 1 month -20 °C to 35 °C for 6 month

Features

Movement detection	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
SMS	Configuration, Events, Debug
GPRS commands	Configuration, Debug
Time Synchronization	GPS, NITZ, NTP
Fuel monitoring	OBDII
Ignition detection	Accelerometer, External Power Voltage, Engine RPM

Need help? Contact 24/7 live support!

In App Chat | support@amberconnect.com | Chat via website www.amberconnect.com

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

Download on the App Store

Get it on Google play

Scan this QR code to download your app

Amber Connect