ThinAir OBD-80 Series
HSPA GSM/GPRS Fallback Vehicle Tracking

Wireless Engine Diagnostics in a small footprint

The ThinAir OBD is a ground breaking evolution in telematics applications. It delivers the capability to monitor and act upon engine diagnostics information in real time in addition to a robust set of vehicle tracking features.

Using industry standard CAN bus protocols, and it's autodetect feature the ThinAir OBD can be quickly and safely installed on all heavy duty & light duty vehicles.

Using Bluetooth Smart connectivity, the ThinAir OBD can connect to any Bluetooth enabled device.

Internal GPS Antenna

Internal GSM Antenna

2 LED Indicators

OBD Connector
J1939, CAN, OBD II

Key Features

- Auto Detect J1939, J1708, Light
- Duty Driver behavior detection
- True Odometer detection
- Fuel efficiency monitoring
- Proactive Vehicle maintenance
- High Voltage Support

The ThinAir OBD is an in-vehicle installed telematics unit that is designed to provide a wide range of in-vehicle functions. The ThinAir OBD supports a variety of reporting intervals and power conservation profiles that are simple to use. Vehicle journey reports based on time, distance, and direction of travel can be easily created from the information reported by the ThinAir OBD. Additionally, all vehicle starts and stops, loss of GPS, low battery, and input state changes can be reported.

ThinAir OBD Hardware Specifications

The ThinAir OBD represents a fresh approach in telematics engineering with a highly integrated, feature packed solution in a small footprint. The ThinAir OBD employs enhanced technology for improved GPS performance and dramatically reduced TTFF (time to first fix). With an industry leading cost-down architecture, the ThinAir OBD outclasses competing devices many times its size and cost with a robust feature set including state-of-the-art vehicle locating functions as well as vehicle diagnostics capability.

For more information please contact your ThinAir representative or visit our website www.thinair.co

Physical Information

L x W x H: 2.55 in x 1.92 in x 1.02 in
Housing: ABS
Weight: 45 grams

GPS/A-GPS Functionality

A-GPS: MS - Based, MS - Assisted
Stand-alone GPS
Supported Protocols: NMEA
Time to First Fix: 30 Sec Cold Start
1 Sec Hot Start
1 Hz Navigation Fixes

Data

- HSDPA - Max 3.6 Mbps (DL)
- WCDMA - Max 384 Kbps (DL, UL)
- EDGE Class - Max 236.8 Kbps, Max 118 Kbps (UL)
- GPRS - Max 85.6 Kbps (DL), Max 42.8 Kbps (UL)
- CSD - GSM data rate 14.4 Kbps
  - WCDMA data rate 57.6 Kbps
  - WCDMA 64 Kbps CSD for Video call
- Multi - PDP connect application

Certification

FCC CERTIFIED
PTCRB CERTIFIED
AT&T CERTIFIED

Application Interface

Host Protocols: AT Commands,
UDP/API
TCP/API
Bluetooth Smart

GSM Functionality

GSM SMS: PDU, MO/MT Cell Broadcast

SIMCard / Interface / IO

Internal 3V SIM
OBD Connector
J1939, J1708, CAN, OBD II

Environment

Operating: -10°C to 60°C
Storage: -40°C to 85°C (Except Battery)
Humidity: 90% non condensing

Band Operation

Dual-Band UMTS/HSDPA 850/1900MHz
Quad-Band GSM/GPRS/EDGE
850/900/1800/1900MHz

Special Features

Wireless Firmware Updates
Internal Antennas
Internal Battery
Bluetooth LE
Locking Connector
Accelerometer

Power

UMTS 850/1900: 0.25W
WGS M850/GSM900: 2W
DCS 1800/PCS1900: 1W

Electrical

8V to 24V
300mAh Li-Ion polymer
100uA Sleep Mode
2mA Snooze Mode (Network On)
30mA Active Mode (Network + GPS On)

About ThinAir

ThinAir Telematics, based in Houston, Texas, is the premier provider of fleet management and GPS tracking solutions for any size business. Our solutions offer real-time insight into mobile and fixed assets to reduce operational costs and improve customer service, safety, and security. Our intuitive web-based and mobile applications empower users to quickly adopt and realize rapid ROI. For more information, please visit www.thinair.co

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