

OBDII

On-Board Diagnostics System

Reduce risk, improve safety and security, and optimize fleet operations with real-time, two-way satellite fleet management.



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Companion Products

MLT-400i

GPS Tracking Module



MDT-PRO

Message Display Terminal



ANTIR 02

Suction Mount Antenna



IGNDRA

Ignition Enable/Disable



Remote Engine Diagnostics

FMS makes it possible to extract vehicle status information from the vehicle's Engine Control Module (ECM). For passenger cars and light-duty trucks manufactured after 1996, the interface is called OBDII. The ECM can be connected to the FMS in-vehicle hardware and serve as an additional source of sensor input.

When events happen, such as power take-offs or hard braking or diagnostic trouble codes, the FMS modem will send the information to the FMS web-based tracking and reporting application, Fleet Central. An alert will be generated and the information will be sent to a designated recipient, such as a fleet manager, helping to prevent costly damage to the vehicle.

This visibility allows for improved vehicle maintenance, identifying vehicle abuse, and a deeper understanding of the behavior and status of your vehicles, all of which will extend the life of the vehicle and lower the total cost of ownership.



MLT-400i



OBDII Equipped Vehicle

How it Works

The modem system is installed in the vehicle or asset. Data transmits to a two-way satellite network in orbit and is then communicated to users via a secure internet browser interface.

Additional Features

- » Simplified Installation
- » Detailed trip reports including:
 - » MPG
 - » Hard break count
 - » Power take-off count
 - » Max coolant temperature
 - » Max Air temperature
 - » Max RPM
 - » Max MPH
- » Increased accuracy of odometer readings
- » Receive instant email alerts for diagnostic trouble codes (DTC's) like:
 - » Ignition system or misfire
 - » Emission management
 - » Vehicle speed & idle control
 - » Computer output circuit
 - » Transmission

Fleet Management Solutions provides complete mobile asset tracking and management solutions, from its vehicle tracking modules to its web-based mapping software.



FMS Technical Support & Professional Services

Client satisfaction, results and continuous return on investment begin with quality training and installation support.

FMS works closely with every client to ensure system installation and deployment is complete and on schedule.

With an online knowledge base and truly helpful documentation you may never encounter a problem you can't solve yourself. But if you do, FMS is just a phone call away.



Corporate Offices

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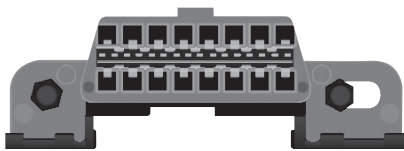
Compatibility

Determining OBDII compatibility and compliance can become very problematic especially with some vehicles in countries without any compliance mandates. The same vehicle year and model that is compliant in the US may not be OBDII compliant but in other countries. In short, your vehicle should be compliant if one or more of the following is true:

- » **≥1996 cars and light trucks in United States**
- » **≥2001 gas in European Union**
- » **≥2004 diesel in European Union**
- » **VIN information meets the above criteria**
- » **Emission control label states OBDII certification**
- » **Compatible with an OBDII diagnostic tool (such as the ElmScan5)**

If the vehicle is truly OBDII compliant, then the FMS OBDII compatible modem will automatically detect the protocol and communicate over the correct signals in the OBDII connector.

OBDII Equipped Vehicles



All cars and light to medium duty trucks built and sold in the United States after January 1, 1996 (and possibly if built in late 1995) should be equipped with OBDII connectors, shown at left.

- » **Light Trucks (class 1 and 2): < 10,000 lb GVW**
- » **Medium Trucks (class 3-6): 10,001-26,000 lb GVW**

If your vehicle does not fall into any of the above categories, look for the OBDII Certified statement on the label under the hood:

VEHICLE EMISSION CONTROL INFORMATION			
A motor co, inc.	ENGINE FAMILY	EFN2.9YBT2BA	OBD II CERTIFIED
	DISPLACEMENT	2.8L	
THIS VEHICLE CONFORMS TO U.S. EPA AND STATE OF CALIFORNIA REGULATIONS APPLICABLE TO 1997 MODEL YEAR NEW TLEV PASSENGER CARS.			
REFER TO SERVICE MANUAL FOR ADDITIONAL INFORMATION			
TUNE-UP CONDITIONS: NORMAL OPERATING ENGINE TEMPERATURE, ACCESSORIES OFF, COOLING FAN OFF, TRANSMISSION IN NEUTRAL			
EXHAUST EMISSIONS STANDARDS	STANDARD CATEGORY		
CERTIFICATION	TLEV		
IN-USE	TLEV INTERMEDIATE		
SPARK PLUG TYPE NGK BPRE-11 GAP: 1.1mm	CATALYST	EFN2.9YBT2BA	

OBD II CERTIFIED

For additional information on OBDII compatibility and your vehicle please read the FMS White Paper titled [Determine OBDII Vehicle Compatibility](#).