

Vital Engineering Ltd

OBD II **BLUETOOTH** INTERFACE

Part No: VE0021



The OBD II interface is designed to aid the diagnostics of all modern vehicles. Our module is designed to provide an interface into both the OBD port and onto the CAN II interface, providing much more than a simple diagnostic interface. The interface is entirely cable free using the State of the art *Bluetooth* module to wirelessly provide a robust and reliable connect to personal computers, PDA's and mobile phone enabled with *Bluetooth*.

The OBD II interface is supplied with diagnostic software for personal computers, PDA's and mobile phones, making this module the most versatile diagnostic interface available.

Key Features

- Supports all OBD-II compliant vehicles
- *Bluetooth* Class 1 with +6dBm transmit power (maximum)
- Current consumption less than 60 mA
- 0°C to +85°C operating range
- Lead free – RoHS compliant
- Real time data interface
- Software included for Palm, PDA
- Software included for Windows PC
- Supports ISO 9141, KWP2000
- Supports SAE J1850
- Supports CAN bus
- 1 year warranty

The OBD II Interface can be paired with a GSM mobile phone to provide an in motion tracking and live diagnostic tool. The data is monitored and passed via the mobile phone to your application, where the vital vehicle telematic information can be monitored in real time. Combine the live telemetry information with GPS data and the whole system becomes a fleet management tool.

Key Benefits

- Vehicle performance monitoring
- Designed for professional use
- Can provide a powerful tracking device when matched with GPS data
- Deduce the way a vehicle is being driven by driver monitoring
- Access data wirelessly from outside of the vehicle
- With an in-car Pocket PC or Smartphone you can send OBD information via SMS, WAP or GPRS.
- Ask us about developer kits for creating your own applications for Palm, Windows Pocket PC and Smartphone platforms.

Features

Features
Supports all OBD-II compliant vehicles
Bluetooth Class 1 with +6dBm transmit power (maximum)
Current consumption less than 60 mA
-0°C to +85°C operating range
Lead free – RoHS compliant
Real time data interface
Software included for Palm, PDA
Software included for Windows PC
Supports ISO 9141, KWP2000
Supports SAE J1850
Supports CAN bus
1 year warranty
Developer SDK available



Key benefits

Fastest time to market	Completely wireless
Powerful diagnostic interface	Fully integrated Bluetooth version 2.0

Supports CAN II	Low power consumption
PC, PDA and Smartphone software	Extensive technical support

Overview of the technical specification

Feature	Implementation
Bluetooth	Class 1
Frequency	2.400 – 2.485 GHz
Max Transmit Power	+ 6dBm
Min Transmit Power	- 27dBm
Low Power Sniff	2.5mA typical
Receive Sensitivity	Better than -84dB
Lead Free	RoHS compliant

Feature	Implementation
Current Consumption	Less than 60mA
Temperature Range	0°C to +85°
Interface Levels	3.0V
Multipoint	Supported
Audio	Support for dual slave PCM connections
Bluetooth Range	Up to 300m
Protocols	CAN II (ISO 15765-4 fast and slow) ISO 9141 ISO 14230 (KWP 2000) SAE J1850 (PWM and VPW) ISO 15031-7

Supported Vehicle Manufacturer

Petrol vehicles sold in **Europe** from **2001** (or manufactured from **2000**) and **diesel cars** sold from **2004** (or manufactured from **2003**). **Petrol vehicles** sold for the **USA** market since **1996**.

European and Asian manufacturers OBD-II / EOBD compliant cars, including, but not limited to:

AC, Aixam, Alfa Romeo, Aston Martin, Audi, Austin, Bentley, BMW, Bristol, Cadillac, Caterham, Chevrolet, Chrysler, Citroen, Daewoo, Daihatsu, Daimler, Datsun, Dodge, Ferrari, Fiat, Ford, GMC, Holden, Honda, Hummer, Hyundai, Infiniti, Isuzu, Jaguar, Jeep, Jensen, Kia, Lada, Lamborghini, Lancia, Land Rover, Lexus, Lincoln, Lotus, Marcos, Maserati, Maybach, Mazda, McLaren, Mercedes-Benz, Mercury, MG, Mini, Mitsubishi, Morgan, Morris, Nissan, Noble, Opel, Pagani, Panther, Peugeot, Pilgrim, Plymouth, Pontiac, Porsche, Proton, Reliant, Renault, Riley, Rolls-Royce, Rover, Saab, Seat, Skoda, Smart, Subaru, Sunbeam, Suzuki, Talbot, Toyota, Triumph, TVR, Ultima, Vauxhall, Volkswagen, Volvo, Westfield, Yugo

The details contained within the document are subject to change; please download the product specification available from www.vitalengineering.co.uk for the most up to date specification