



OBD-II Vehicle Bus Interface



Overview

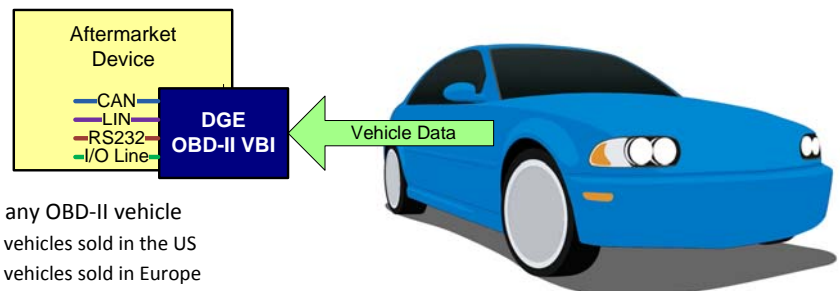
DGE's OBD-II Vehicle Bus Interface (OBD-II VBI) provides a cost effective, non-intrusive access point to OEM vehicle network systems via the industry standard OBD-II interface port. It can interface with any OBD-II compliant vehicle -- those sold in the US from model year 1996 to present or in Europe from model year 2003 to present.

The OBD-II VBI caters to aftermarket equipment developers by providing data access to vital vehicle information such as vehicle speed, RPM, temperature and pressure data, fuel usage, etc. This information can be used to enhance the functionality of aftermarket products by providing real time vehicle and driver feedback to systems such as fleet management devices, add-on gauges and accessories, loggers, etc.

In addition to furnishing vehicle information to the aftermarket device, the OBD-II VBI can provide and switch device power. It also supports simple I/O control (LEDs, high/low-side drivers) based upon vehicle data.

Architecture

The DGE OBD-II VBI is available as a standalone unit or may be integrated onto the PCB of the aftermarket device. DGE will work with you to customize the device to best meet your needs and specific application.



Features

- Compatibility with any OBD-II vehicle
 - 1996MY+ vehicles sold in the US
 - 2003MY+ vehicles sold in Europe
- Sleep functionality
 - Detects whether the vehicle is on or off and sleeps or wakes accordingly
 - Can provide and control 12V power to an additional device using the same logic
- Bootloader available for field programmability (flash update or configuration)
- Extra SCI and SPI port allow flexibility for the aftermarket device interface. Access OBDII data via:
 - CAN
 - LIN
 - General I/O Control
 - Serial

Benefits

The OBD-II VBI is ready to use, proven technology found in existing, production devices. Whether you are looking to integrate vehicle network information into an existing product or starting a new design, DGE's industry leading expertise and OBD-II Vehicle Bus Interface take the guess work out vehicle network communications and improve your time to market.

Supported Protocols

ISO 15765-4

500K CAN 11-bit

ISO 15765-4

250K CAN 11-bit

ISO 15765-4

500K CAN 29-bit

ISO 15765-4

250K CAN 29-bit

SAE J1850

VPW

SAE J1850

PWM

ISO 9141-2

5-baud initialization, 10.4 Kbps

ISO 14230-4

KWP 5-baud initialization, 10.4 Kbps

ISO 14230-4

KWP fast initialization, 10.4 Kbps