

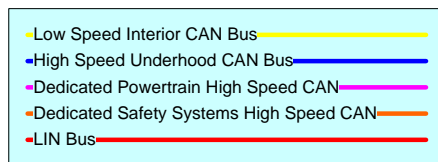
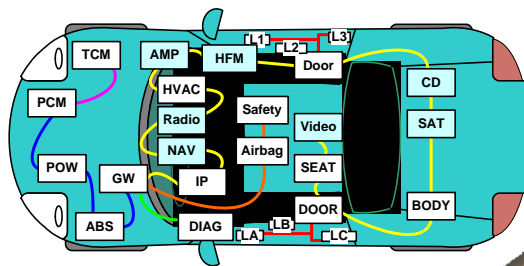


Gateway 4

Overview

The Gateway 4 is DGE's fourth-generation CAN / LIN gateway and general purpose development module. It provides message translation across differing vehicle networks, such as high speed CAN, low speed fault tolerant CAN, single-wire CAN, and LIN. In addition to message translation, the Gateway 4 can also be used to emulate a module, transmitting messages and signals based upon switch or sensor I/O and data received over the bus. It can also control I/O (relay drivers, LEDs, etc.) based upon message and signals received from the vehicle network. The Gateway 4 is capable of supporting all major OEM vehicle networking protocols.

Flash re-programmability via USB or CAN allows for Gateway 4 software updates supplied by DGE to be easily uploaded. The user can easily enable or disable specific transmit messages in the field.



Features and Specs

- Up to four CAN bus interfaces - configurable for any supported transceiver type
- One LIN interface (9.6 - 20 Kbps, configurable as Master or Slave)
- Flash re-programming interface
- DBC-file based CAN messages
- Transmit message enable and disable capability
- 8 status/activity indicator LEDs
- Up to 8 digital inputs, 16 digital outputs
- Up to 8 analog inputs
- 1 analog output
- One counter-timer input
- Real Time Clock
- Separate sensor, power grounds
- Configurable to power-on via battery feed, switched battery (ignition), or via bus wakeup
- PCB breadboard area for custom hardware
- -40 °C to +85 °C for standard automotive interior operation
- 9V to 16V operation (200mA typ.)
- 6.5" x 4.2" x 1.6" metal housing

Gateway Software

DGE will customize the Gateway 4 software to meet customer requirements for specific applications. The Gateway 4 can act as a "glue module", controlling motors, relays, switches and LEDs based upon network messages. Software customization allows:

- Periodic message transmission with signals based on sensor (analog) or switch inputs
- Ability to control digital, analog and PWM outputs based on received message content
- Translation of messages between vehicle buses (CAN-to-CAN, CAN-to-LIN, LIN-to-CAN)

