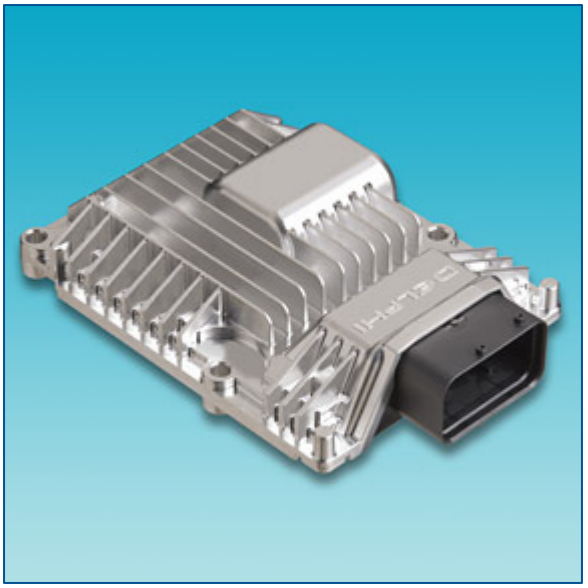
DELPHI

POWERTRAIN SYSTEMS

Delphi IDM-2 GDi Driver Control Module

The Delphi IDM-2 GDi Driver Control Module is an injector driver module that can be used with a port fuel injection engine control module or powertrain control module to modify the electronic signal and effectively operate gasoline direct injection (GDi) fuel injectors and provide high pressure fuel pump control. It is designed to provide manufacturers with a low cost option to implement GDi in an existing port fuel injection engine program and help enhance performance and fuel economy and reduce exhaust emissions.



Delphi IDM-2 GDi Driver Control Module

Benefits

- Offers low cost strategy for implementing an initial low volume homogeneous mode or stratified charge direct injection programs
- Ability to work with existing engine control module (ECM) or powertrain control module (PCM)
- Compact size for ease of packaging in passenger compartment
- Robust, waterproof design also enables under hood mounting capability
- Single, right angle connector for mounting flexibility
- Helps manufacturers meet stringent emissions standards
- 16-bit microprocessor with up to 128K flash memory enables high-speed processing and in-vehicle memory updates
- Large flash memory size and fast microprocessor enable application of advanced valve train functions
- Industry standard CAN serial communication for speed and reliable communication
- Compact design with 128 mm x 192 mm x 44 mm dimensions
- FR4 circuit board enables standard manufacturing processes and provides low cost

Typical Applications

The Delphi IDM-2 GDi Driver Control Module is designed to support most 4- and 6-cylinder gasoline and gasoline-ethanol blend engine programs, including turbo charged engines, to enable low cost upgrade from port fuel injection to direct injection.

Performance Advantages

The Delphi IDM-2 GDi Driver Control Module offers a practical, low cost strategy to help manufacturers meet demanding engine performance targets and high-level fuel economy objectives. It also helps manufacturers meet stringent emissions regulations, including:

- U.S. PZEV, SULEV, LEV2
- Korean KULEV
- Euro 3, Euro 4, Euro 5 and Euro 6
- U.S. OBD-I and OBD-II On-Board Diagnostics
- European On Board Diagnostics (EOBD)

The IDM-2 GDi Driver Control Module also contributes to smooth vehicle acceleration, enables cold weather start-ups and helps extend engine life.

Delphi's unique understanding of the complete engine management system and the company's full range of major component development capabilities contribute to superior component design and cost-effective systems.

The Delphi Advantage

Delphi offers nearly 30 years' experience in high volume engine control design and manufacturing. Delphi can provide customers with customized IC design, manufacturing and analysis. Delphi can provide an engine control module or a complete system with software, algorithms, calibration, and other options.

As a global leader in engine management systems technology, Delphi can help manufacturers around the world meet emissions requirements, improve fuel economy and enhance performance. Delphi is a source for high value solutions and our systems expertise is built into every product. Delphi's flexible engineering approach encourages collaboration. And, Delphi has a thorough understanding of automotive markets around the world and a global network of resources.