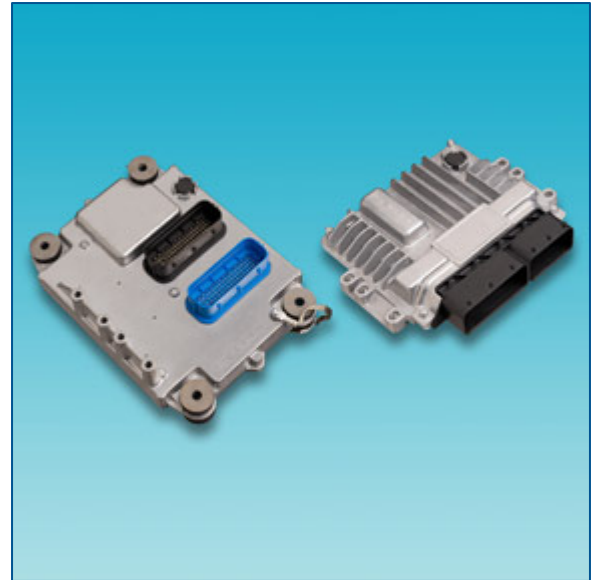


Delphi DCM Medium Duty Diesel Engine Controller Series

The Delphi DCM Medium Duty Diesel Engine Controller Series is a family of electronic devices that assist in the control of a diesel engine management system by instantaneously measuring multiple events enabling "real time" adjustments of fuel and air to help the engine operate efficiently, reliably and economically. They provide manufacturers with a wide range of vehicle- and engine-interface functions in one compact package. Depending on customer needs, Delphi can provide hardware with inputs/outputs (I/O) interface software or complete turn-key vehicle and engine application software.

► Benefits

- Mounting location flexibility: On- or Off-engine
- Supports Tier 3 and Tier 4 off-highway, Euro 5, and US07 on-highway emissions requirements
- Flash programming of vehicle calibration and software updates
- Readily configurable software to meet customer specifications
- Various pin connections to help support a range of medium duty diesel requirements
- Robust construction for engine mounting capability
- Supports Delphi Medium Duty Diesel Common Rail Systems
- Serial communications feature flexibility: Controller Area Network (CAN)
- Production-proven micro processor technologies



Delphi DCM 3.3P and DCM 3.7 Medium Duty Diesel Engine Controllers

► Typical Applications

The Delphi DCM Medium Duty Diesel Engine Controller Series is designed to support Delphi Medium Duty Diesel Common Rail Systems.

► Performance Advantages

The Delphi DCM Medium Duty Diesel Engine Controller Series has features that can help vehicle manufacturers meet demanding engine performance targets, higher-level fuel economy requirements, and the most stringent emissions regulations. Delphi's unique understanding of the complete engine management system and its full range of major component development capabilities contribute to superior component design and cost-effective systems. Delphi provides in-depth knowledge of regional market requirements to help vehicle manufacturers with new product launches anywhere in the world.

► **Performance Specifications**

	DCM 3.3P Controller	DCM 3.7 Controller
Main Central Processing Unit (CPU)	<ul style="list-style-type: none"> High-feature, highly integrated high speed (80-200 MHz) automotive 32-bit microprocessors Challenge and response watchdog, torque monitoring, program flow check 	<ul style="list-style-type: none"> High-feature, highly integrated high speed (80-200 MHz) automotive 32-bit micro processors Challenge and response watchdog, torque monitoring, program flow check
Technology	<ul style="list-style-type: none"> FR4 multilayer circuit boards with plastic ball grid array CPUs Surface-mount power devices 	<ul style="list-style-type: none"> FR4 multilayer circuit boards with plastic ball grid array CPUs Surface-mount power devices
Fuel Injection Equipment Configuration	<ul style="list-style-type: none"> Common rail systems 	<ul style="list-style-type: none"> Common rail systems
Fuel System Interface	<ul style="list-style-type: none"> Delphi Diesel Systems 12V injectors 	<ul style="list-style-type: none"> Delphi Diesel Systems 12V injectors
I/O Chip Set	<ul style="list-style-type: none"> Delphi custom and commercial application specific integrated circuits 	<ul style="list-style-type: none"> Delphi custom and commercial application specific integrated circuits
Mounting	<ul style="list-style-type: none"> On- or Off-engine 	<ul style="list-style-type: none"> Off-engine
Connectors	<ul style="list-style-type: none"> 124 pins 	<ul style="list-style-type: none"> 60 to 200 pins
Operating Temperature	<ul style="list-style-type: none"> -40°C to 105°C (case) operation 	<ul style="list-style-type: none"> -40°C to 105°C (case) operation
Operating Voltage	<ul style="list-style-type: none"> 12V (with 24V option) 	<ul style="list-style-type: none"> 12V
Dimensions	<ul style="list-style-type: none"> 230 mm x 185 mm x 65 mm 	<ul style="list-style-type: none"> Depending on specification: <ul style="list-style-type: none"> ○ Typical dimensions: 198 mm x 157 mm x 44mm

► **The Delphi Advantage**

Delphi is a world leader in innovation, design and the manufacture of medium duty diesel fuel systems. Delphi has many years experience in the medium duty diesel market and a long history of working closely with engine manufacturers. Delphi medium duty fuel systems can be found on millions of engines around the world. Delphi has 15 diesel design and engineering centers in Europe, Asia, North America, and South America, and 21 diesel manufacturing facilities in 13 countries enabling exceptional on-time delivery.

As a global leader in engine management systems, 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.