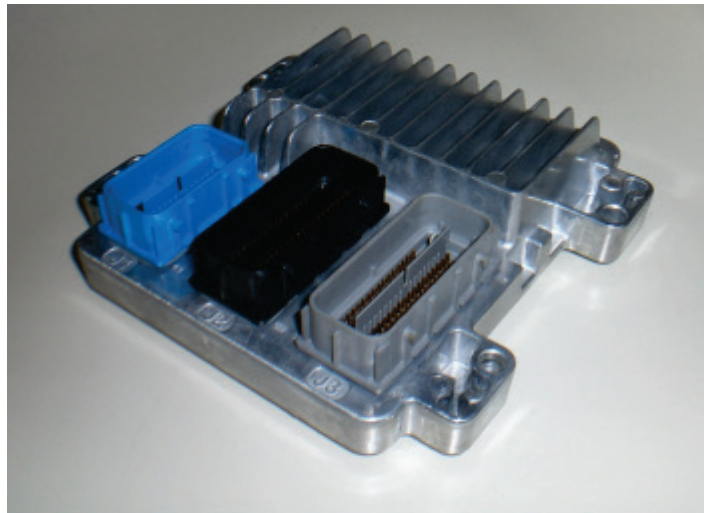




## AiM InfoTech

### DELPHI MEFI 5-5A-5B-6 ECUs

Release 1.02



ECU



# 1

## Supported models

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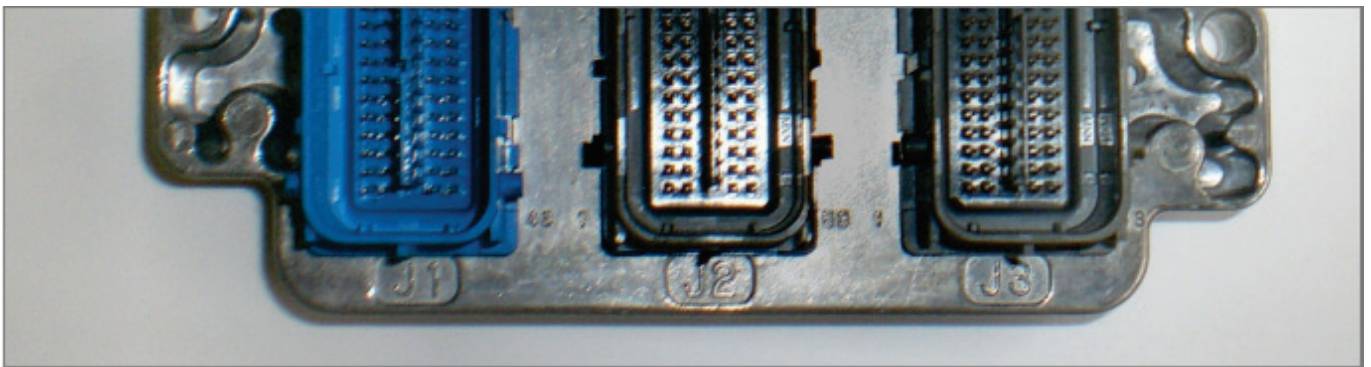
This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

Supported models and years are:

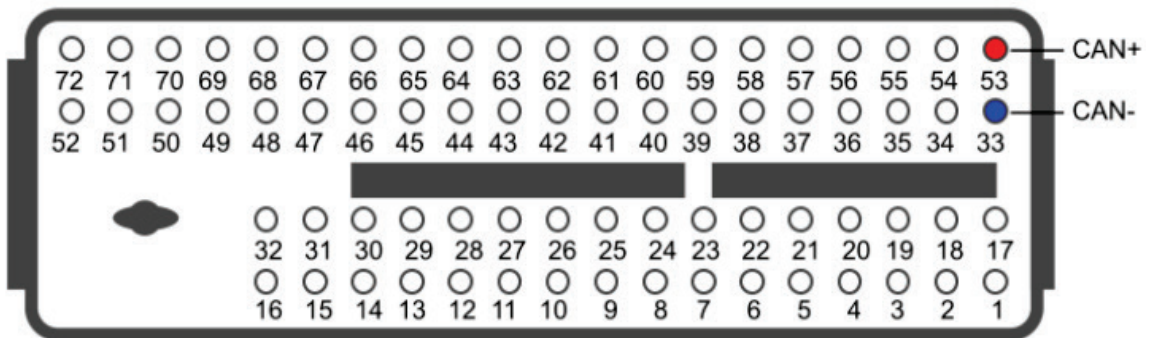
- MEFI 5
- MEFI 5A
- MEFI 5B
- MEFI 6

## 2 Wiring connection

Delphi MEFI ECUs feature a CAN communication protocol on the J3 front connector shown below.



Here below you see J3 connector and connection table.



**J3 connector pin**

53  
33

**Function**

CAN High  
CAN Low

**AiM cable**

CAN+  
CAN-

**AiM color cable**

White  
Blue

## 3

# Race Studio configuration

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Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **DELPHI**
- ECU Model: **MEFI-5B**

## 4

# "DELPHI – MEFI-5B" protocol

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Channels received by AiM devices configured with "DELPHI – MEFI-5B" protocol are:

<b>CHANNEL NAME</b>	<b>FUNCTION</b>
RPM	Engine RPM
Speed	Vehicle speed
ECT	Engine coolant temperature
FTemp	Fuel temperature
MAT	Manifold air temperature
FuelPress	Fuel pressure
MAP	Manifold air pressure
OILP	Oil pressure
CAM RET	Camshaft retard
SPAK ADV	Spark advance
KNOCK RET	Knock retard
TPS	Throttle position sensor
PPS	Pedal position sensor
RuntimeM	Run time minute
RuntimeH	Run time hour
INJ BANKA	Injection pulse bank A



INJ BANB	Injection pulse bank B
EGRFB	Engine gas recirculation voltage
MAP VOLT	Manifold air pressure voltage
EIV	Ignition voltage
FuelCons	Fuel consumption
ENGLAMP	Engine malfunction indicator

**Technical note:** not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.