AiM Infotech

GET HPUG ECU

Release 1.02

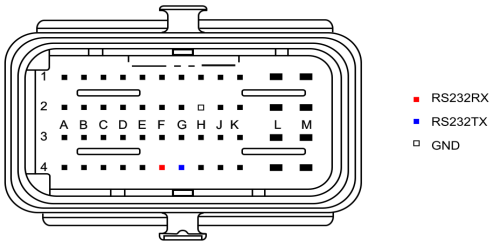
1 Supported models

This document explains how to connect AiM devices to the Engine Control Unit (ECU) datastream. Supported models are:

- HPUG

2 Wiring connection

Get HPUG ECU communicates using the serial protocol on the 48 pins front male connector. Here below are 48 pins connector pinout and connection table. **Please note**: Pins are numbered on the connector.



48 pins Connector pin	Pin function	AiM cable label
F4	RS232RX	RS232TX/ECU RS232RX
G4	RS232TX	RS232RX/ECU RS232TX
H2	GND	GND

Please note:
AiM wiring harnesses supplied after September 2018 have the following labels:
ECU RS232TX (white) to be connected to **ECU TX** pin
ECU RS232RX (blue) to be connected to **ECU RX** pin (if indicated in the connection table above)
AiM wiring harnesses supplied before September 2018 have the following labels:
RS232RX (white) to be connected to **ECU TX** pin
RS232TX (blue) to be connected to **ECU RX** pin (if indicated in the connection table above)

3
Race Studio configuration

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

- ECU manufacturer **Get**
- ECU Model **HPUG**

4
"Get – HPUG" protocol

Channels received by AiM devices configured with "Get - HPUG" protocol are:

CHANNEL NAME	FUNCTION
ECU_RPM	RPM
ECU_SPEED	Speed
ECU_TPS	Throttle position sensor
ECU_DTPS_POS	Throttle position sensor positive derivative
ECU_DTPS_NEG	Throttle position sensor negative derivative
ECU_MAP	Manifold air pressure
ECU_BAP	Barometric air pressure
ECU_AIRT	Intake air temperature
ECU_ENGT	Engine temperature
ECU_LBDA1	Lambda value 1
ECU_LBDA2	Lambda value 2
ECU_LBDA_T	Lambda temperature
ECU_KLBDA1	Lambda correction 1
ECU_KLBDA2	Lambda correction 2
ECU_INJT1	Injection time 1

ECU_INJT2	Injection time 2
ECU_SPARK1	Engine spark 1
ECU_SPARK2	Engine spark 2
ECU_PHASE1	Engine phase 1
ECU_PHASE2	Engine phase 2
ECU_IDLE_VALVE	Idle valve
ECU_ACTIVBLOCK	Active block
ECU_NEUTRAL	Neutral signal
ECU_BATT_V	Battery voltgae
ECU_ERCOUNTER	Error counter