AiM User Guide

EcuMaster EMU

Release 1.00

ECU

1
Supported models

This user guide explains how to connect EcuMaster ECU to AiM devices. Supported model is:

- EcuMaster   EMU

2
Software setup

EMU ECU needs a software setup to correctly communicate with AiM devices. You need to set "AiM Dashboard" device as shown here below.
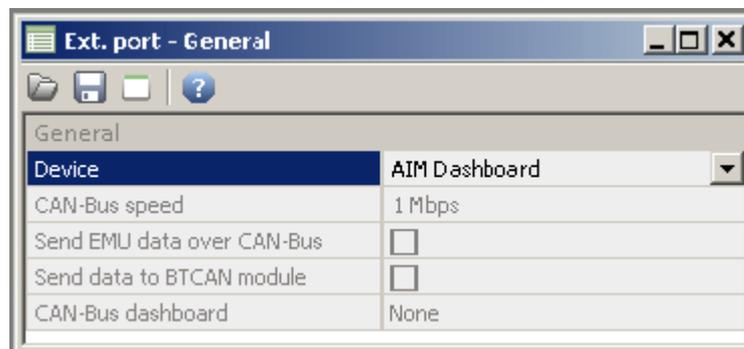
3
Wiring connection

EMU ECU features serial communication protocol on EMU extension port whose pinout – front view – is shown below with the connection table.
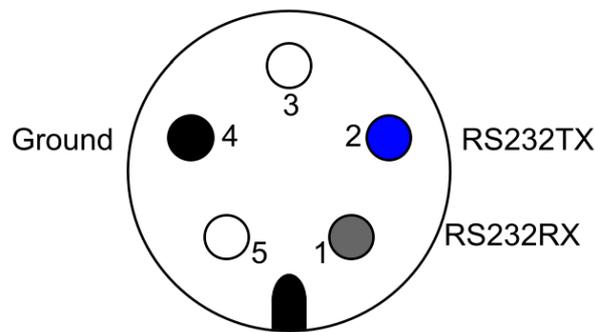
Pin	Function	AiM cable
1	RS232RX	RS232TX
2	RS232TX	RS232RX
4	Ground	GND

Please note: with serial communication protocol it is mandatory to connect ECU GND with AiM device GND as well as ECU RX is to be connected to AiM TX and vice versa.

4
AiM device configuration

Before connecting the ECU to AiM device set it up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "AIM"
- ECU Model "PROT_UART"

5
Available channels

Channels received by AiM devices connected to "AIM" "PROT_UART" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	AIM_RPM	RPM
ECU_2	AIM_WHEELSPD	Wheel Speed
ECU_3	AIM_OILPRESS	Oil pressure
ECU_4	AIM_OILTEMP	Oil temperature
ECU_5	AIM_WATERTEMP	Engine coolant temperature
ECU_6	AIM_FUELPRESS	Fuel pressure
ECU_7	AIM_BATTVOLT	Battery supply
ECU_8	AIM_THROTANG	Throttle angle
ECU_9	AIM_MANIFPRESS	Manifold air pressure
ECU_10	AIM_AIRCHARGETEMP	Intake air temperature
ECU_11	AIM_EXHTEMP	Exhaust gas temperature
ECU_12	AIM_LAMBDA	Lambda value
ECU_13	AIM_FUELTEMP	Fuel temperature
ECU_14	AIM_GEAR	Engaged gear
ECU_15	AIM_ERRORFLAG	Error flag