AiM InfoTech

SCCA Formula Enterprises
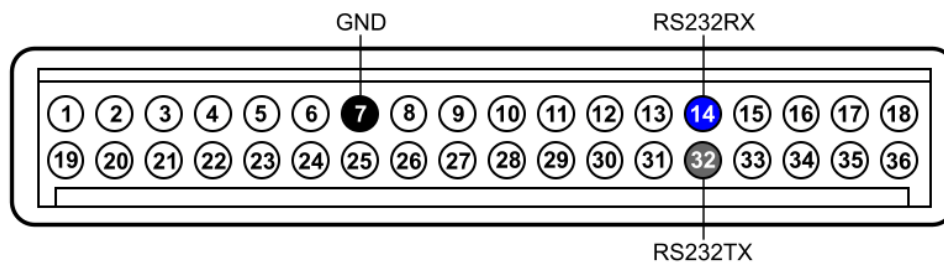
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ECU

This tutorial explains how to connect your AiM device to SCCA Formula Enterprises (FE) vehicles.

1
Wiring connection

Formula Enterprises vehicles are equipped with a MBE ECU that features a bus communication protocol based on CAN. Here below are connector pinout – vehicle side and connection scheme.

Data output connector pin	Pin function	AiM cable
32	RS232TX	RS232RX
14	RS232RX	RS232TX
7	Ground	Ground

Technical note: Formula Enterprises ECU requires a baud rate adjustment to properly communicate with AiM devices; this service is only available through Formula Enterprises directly. For further information visit www.scca-e.com.

3
AiM device configuration

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

- ECU Manufacturer: "SCCA Enterprises"
- ECU Model: "Formula Enterprises "

4
Available channels

Channels received by AiM device connected to "SCCA Enterprises" "Formula Enterprises " protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	FE_ENGINESPD	RPM
ECU_2	FE_IGNITION	Ignition table
ECU_3	FE_INJECTIME	Injection time
ECU_4	FE_THROTANG	Throttle position
ECU_5	FE_COOLANTTEMP	Engine coolant temperature
ECU_6	FE_AIRTEMP	Intake air temperature
ECU_7	FE_BAROPRESS	Barometric pressure
ECU_8	FE_LAMBDA	Lambda value
ECU_9	FE_VOLT_LAMBDA	Lambda Voltage
ECU_10	FE_ENGOILPRESS	Engine oil pressure
ECU_11	FE_FUELPRESS	Fuel pressure
ECU_12	FE_GEAR	Engaged gear
ECU_13	FE_GEAROILTEMP	Gearbox oil temperature
ECU_14	FE_VOLT_GEAR	Gear sensor Voltage
ECU_15	FE_BOOSTPRESS	Boost pressure
ECU_16	FE_ROW_VAL	Throttle break point