

AiM Infotech

## BMW M235i Racing ECU

Release 1.00

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ECU



This tutorial explains how to connect BMW cars to AiM devices.

# 1

## Supported models

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Supported models are:

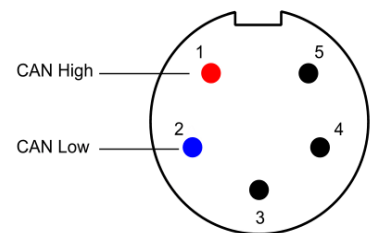
- BMW M235i Racing from 2014 onward

# 2

## Connection to AiM devices

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BMW M235i Racing ECU features a bus communication protocol based on CAN on the 5 pins Binder 712 male connector located in the vehicle passenger area; here below: on the left the connector, on the right the connector pinout – front view – and below connection table.



Binder 712 male connector pin	Pin function	AiM cable
1	CAN High	CAN+
2	CAN Low	CAN-

**Warning:** do not plug this connector directly in AiM devices ECU inputs.

### 3

## AiM Logger configuration

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Before connecting the device to the ECU set it up as follows:

- Run Race Studio 2 software and follow this path:
- Device Configuration -> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "BMW" and ECU Model "M235i"
- transmit the configuration to the device pressing "Transmit".

## 4

# Available channels

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Channels received by AiM devices connected to "BMW" "M235i" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	ECU_THROTTLE	Throttle position sensor
ECU_3	ECU_BRK_STATE	Brake status
ECU_4	ECU_SPEED	Vehicle speed
ECU_5	ECU_AIR_T	Intake air temperature
ECU_6	ECU_WATER_T	Engine coolant temperature
ECU_7	ECU_OIL_T	Oil temperature
ECU_8	ECU_GEAR	Engaged gear
ECU_9	ECU_AIR_P	Air pressure
ECU_10	ECU_GEAR_T	Gearbox Temperature
ECU_11	ECU_STER_ANG	Steering angle
ECU_12	ECU_FUEL_RAW	Fuel value
ECU_13	ECU_BATTERY	Battery supply
ECU_14	ECU_INL_ACC	Inline acceleration
ECU_15	ECU_LAT_ACC	Lateral acceleration
ECU_16	ECU_GYRO	Gyroscope
ECU_17	ECU_CUR_IBS	Battery current
ECU_18	ECU_WS_RL	Rear left wheel speed
ECU_19	ECU_WS_RR	Rear right wheel speed
ECU_20	ECU_WS_FL	Front left wheel speed
ECU_21	ECU_WS_FR	Front right wheel speed