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### AiM Infotech

## BMW M235i Racing ECU

### Release 1.03



ECU







## Supported models

This tutorial explains how to connect BMW cars to AiM devices. Supported models are:

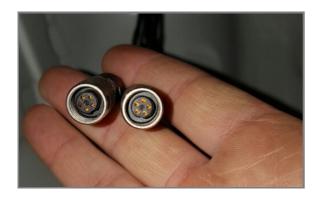
BMW M235i Racing

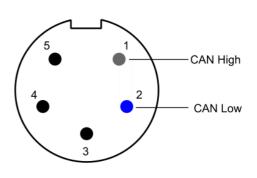
from 2014 onward

### Connection to AiM devices

BMW M235i Racing ECU features a bus communication protocol based on CAN on the 5 pins Binder 712 female connector located in the vehicle passenger area. As you can see here below on the left, in the passenger area you find two Binder connectors; the one to be used is labelled **Data System Team**.

Here below: on the left the connectors – please remember to use the one labelled Data System Teamand on the right the connector pinout front view. Bottom is connection table.





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

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



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# AiM device configuration

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

- ECU manufacturer "BMW"
- ECU Model "M235i"



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## Available channels

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

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