

AiM Infotech

BMW Z4 Coupé  
2003-2008

Release 1.00

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ECU



This tutorial explains how to connect BMW Z4 Coupé to AiM devices. Supported years are:

- BMW Z4 Coupé 2003-2008

## 1

# CAN connection

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BMW Z4 is equipped with a CAN communication protocol on the vehicle ECU. Two alternative CAN connections are available on it. Here below they are explained.

Cable colour	Pin function	AiM cable
<b>CAN Connection 1</b>		
Yellow/red	CAN High	CAN+
Yellow/brown	CAN Low	CAN-
<b>CAN Connection 2</b>		
Yellow/black	CAN High	CAN+
Yellow/brown	CAN Low	CAN-

## 2

# AiM Logger configuration

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Once the ECU connected to the logger, set up the logger as follows:

Run Race Studio 2 software and select:

- 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 "Z4M\_COUPE\_OEM\_ECU"
- transmit the configuration to the device pressing "Transmit".

### 3

## Available channels

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Channels received by AiM devices connected to BMW Z4M\_COUPE\_OEM\_ECU protocol are.

<b>ID</b>	<b>CHANNEL NAME</b>	<b>FUNCTION</b>
ECU_1	Z4M_RPM	RPM
ECU_2	Z4M_SPEED	Vehicle speed
ECU_3	Z4M_WH_FL	Front left wheel speed
ECU_4	Z4M_WH_FR	Front right wheel speed
ECU_5	Z4M_WH_RL	Rear left wheel speed
ECU_6	Z4M_WH_RR	Rear right wheel speed
ECU_7	Z4M_PPS	Pedal position
ECU_8	Z4M_STEER_ANG	Steering angle
ECU_9	Z4M_BRAKE_PR	Brake pressure
ECU_10	Z4M_ENG_MOM	Engine moment
ECU_11	Z4M_BRAKE_SW	Brake switch
ECU_12	Z4M_CLUTCH_SW	Clutch switch
ECU_13	Z4M_FUEL	Fuel consumption
ECU_14	Z4M_WATER_TEMP	Engine coolant temperature
ECU_15	Z4M_OIL_TEMP	Oil temperature
ECU_16	Z4M_AIR_TEMP	Intake air temperature