

AiM Infotech

# Bosch MS4 Sport3 for FIA GT3 championship

Release 1.02

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ECU

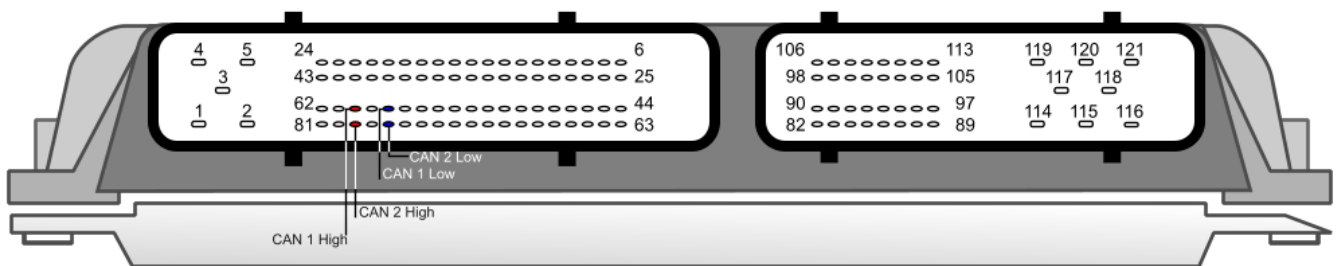


This tutorial explains how to connect Bosch MS4 Sport for FIA GT3 championship to AiM devices.

# 1 Connection to AiM devices

Bosch MS4 Sport for FIA GT3. championship features a bus communication protocol based on CAN on the ECU front left connector

Here below is ECU pinout and bottom of it connection table.



ECU connector pin	Pin function	AiM cable
60	CAN 1 High	CAN+
58	CAN 1 Low	CAN-
79	CAN 2 High	CAN+
77	CAN 2 Low	CAN-

**Warning: never connect** pins belonging to different couples like pin 60 (CAN 1 High) with pin 77 (CAN 2 Low).

## 2

# AiM device configuration

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

- ECU manufacturer "Bosch"
- ECU Model "MS4\_SPORT\_FIA\_GT3 (Beta Ver)"

## 3

# Available channels

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Channels received by AiM devices connected to "Bosch" " MS4\_SPORT\_FIA\_GT3 (Beta Ver)" protocol are:

<b>ID</b>	<b>CHANNEL NAME</b>	<b>FUNCTION</b>
ECU_1	MS4_RPM	RPM
ECU_2	MS4_TPS	Throttle position sensor
ECU_3	MS4_SPEED	Vehicle speed
ECU_4	MS4_WH_SPD_FL	Front left wheel speed
ECU_5	MS4_WH_SPD_FR	Front right wheel speed
ECU_6	MS4_WH_SPD_RL	Rear left wheel speed
ECU_7	MS4_WH_SPD_RR	Rear right wheel speed
ECU_8	MS4_GEAR	Engaged gear
ECU_9	MS4_MAP_SEL	Map selection
ECU_10	MS4_OIL_T	Oil temperature
ECU_11	MS4_AIR_T	Intake air temperature
ECU_12	MS4_ECT	Engine coolant temperature
ECU_13	MS4_GEAR_TEMP	Gearbox temperature
ECU_14	MS4_AXLE_TEMP	Axle temperature
ECU_15	MS4_OIL_P	Oil pressure



ECU_16	MS4_AIR_P	Intake air pressure
ECU_17	MS4_FUEL_P	Fuel pressure
ECU_18	MS4_CRANK_P	Crankcase pressure
ECU_19	MS4_BRAKE_P_FR	Front right brake pressure
ECU_20	MS4_BRAKE_P_RR	Rear right brake pressure
ECU_21	MS4_LAMBDA1	Lambda 1 value
ECU_22	MS4_LAMBDA2	Lambda 2 value
ECU_23	MS4_FUEL_TANK	Fuel tank remaining
ECU_24	MS4_STEER_SPD	Steering speed
ECU_25	MS4_YAW	Yaw rate
ECU_26	MS4_ACCX_FW	Forward acceleration
ECU_27	MS4_ACCY_LT	Lateral acceleration
ECU_28	MS4_TCSW	Traction control position
ECU_29	MS4_SIRA_SLIP	Sira slip percentage
ECU_30	MS4_GEAR_POT_V	Gear potentiometer
ECU_31	MS4_GEAR_CUT_V	Gear cut
ECU_32	MS4_INJ_OFF	Injection of cylinders cut off
ECU_33	MS4_TC_B	Traction control flag
ECU_34	MS4_GEAR_CUT_B	Gear cut flag
ECU_35	MS4_SPEEDLIM_B	Speed limiter flag
ECU_36	MS4_PHSOK_B	CAM sensor OK flag
ECU_37	MS4_RPM_LIM_B	RPM Limiter flag