



## AiM Infotech

### Porsche 997 GT3 R from 2010 onwards ECU

Release 1.01

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ECU



# 1 Supported models and years

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This tutorial explains how to connect Porsche race cars to AiM devices. Supported models and years are:

- Porsche 997 GT3 R from 2010 onwards

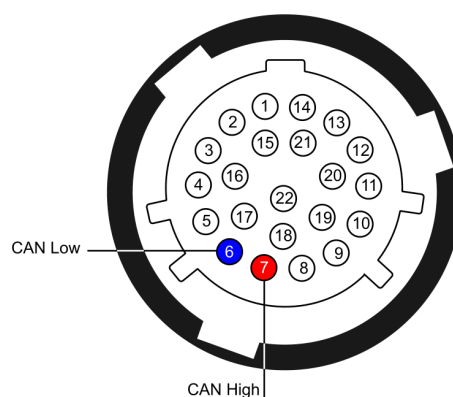
# 2 Wiring connection

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These cars can be equipped with Bosch MS4 or Bosch MS4 Sport ECU that feature a bus communication protocol based on CAN. This can be reached in two ways:

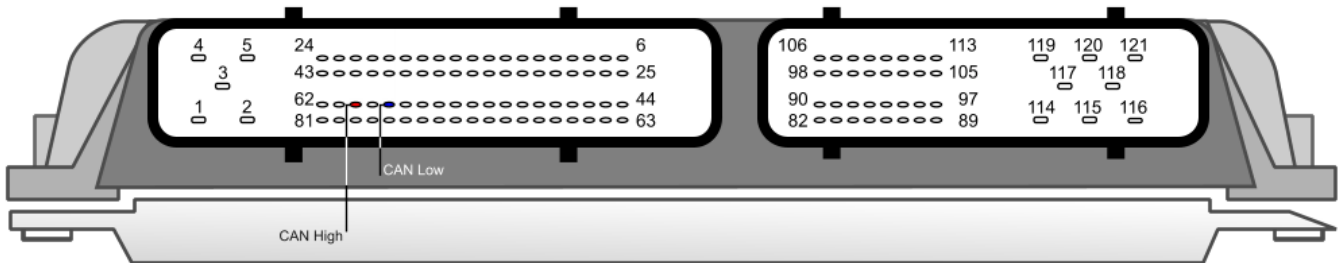
- using a 22 pins Deutsch female connector normally placed near the car dash;
- going to the vehicle ECU

Here below are 22 pins Deutsch female connector pinout on top and connection table on bottom.



22 pins connector pin	Pin function	AiM cable
7	CAN High	CAN+
6	CAN Low	CAN-

Here below you see Bosch MS4/MS4 Sport connectors pinout and below is connection table.



MS4 connector pin	Pin function	AiM cable
60	CAN High	CAN+
58	CAN Low	CAN-

### 3 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 "Porsche"
- ECU Model "MS4\_997\_GT3\_R"

## 4

# Available channels

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Channels received by AiM devices connected to "Porsche" "MS4\_997\_GT3\_R" protocol are:

<b>ID</b>	<b>CHANNEL NAME</b>	<b>FUNCTION</b>
ECU_1	GT3_RPM	RPM
ECU_2	GT3_TPS	Throttle position sensor
ECU_3	GT3_OIL_PRESS	Oil pressure
ECU_4	GT3_FUEL_PRESS	Fuel pressure
ECU_5	GT3_FUEL_TEMP	Fuel temperature
ECU_6	GT3_OILT	Oil temperature
ECU_7	GT3_ECT	Engine coolant temperature
ECU_8	GT3_IAT	Intake air temperature
ECU_9	GT3_BATT_VOLT	Battery supply
ECU_10	GT3_MAP_POS	Selected map
ECU_11	GT3_GEAR	Engaged gear – disabled by default*
ECU_12	GT3_PPS	Pedal position sensor
ECU_13	GT3_BRAKE_SW	Brake switch
ECU_14	GT3_WH_SP_FL	Front left wheel speed
ECU_15	GT3_WH_SP_FR	Front right wheel speed
ECU_16	GT3_WH_SP_RL	Rear left wheel speed
ECU_17	GT3_WH_SP_RR	Rear right wheel speed
ECU_18	GT3_STEER_ANG	Steering angle
ECU_19	GT3_VEH_SPEED	Vehicle speed
ECU_20	GT3_LAMBDA1	Lambda 1 value
ECU_21	GT3_LAMBDA2	Lambda 2 value
ECU_22	GT3_GEAR_POT	Gear potentiometer
ECU_23	GT3_GEAR_SH	Gearshift value
ECU_24	GT3_PWAT	Water pressure
ECU_25	GT3_MAP	Manifold air pressure



ECU_26	GT3_PCLUTCH	Clutch pressure
ECU_27	GT3_ACC_X	Horizontal acceleration
ECU_28	GT3_ACC_Y	Vertical acceleration
ECU_29	GT3_ACC_Z	Lateral acceleration
ECU_30	GT3_WH_FL_ABS	Front left ABS
ECU_31	GT3_WH_FR_ABS	Front right ABS
ECU_32	GT3_WH_RL_ABS	Rear left ABS
ECU_33	GT3_WH_RR_ABS	Rear right ABS
ECU_34	GT3_BRK_PR_MAS	Max brake pressure
ECU_35	GT3_BRK_PR_F1	Front brake pressure 1
ECU_36	GT3_BRK_PR_F2	Front brake pressure 2
ECU_37	GT3_BRK_PR_R1	Rear brake pressure 1
ECU_38	GT3_BRK_PR_R2	Rear brake pressure 2
ECU_40	GT3_INTKM_THRO	Intake manifold throttle
ECU_41	GT3_IGN_ANG	Ignition angle
ECU_42	GT3_FUEL_CONS	Fuel consumption

**\*Please note:** this channel is disabled by default. To enable it go to "System configuration layer" and enable "ECU" option in gear sensor box.