

AiM Infotech

Porsche 997 GT3 RSR ECU

Release 1.02

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ECU



This tutorial explains how to connect Porsche 997 race cars to AiM devices. Supported models and years are:

- Porsche 997 GT3 RSR from 2007 onwards

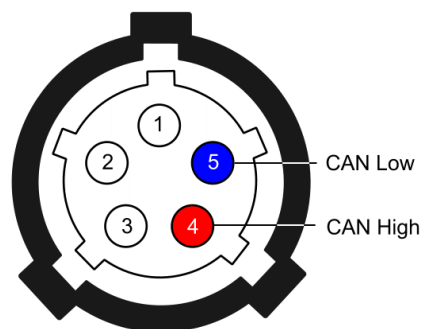
# 1

## CAN connection

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

- using a 5 pins Deutsch female connector placed near the ECU; this connector is mounted as stock on the car harness and is very easy to reach;
- going to the ECU.

Here below you see 5 pins Deutsch female connector pinout on top and connection table on bottom.



### 5 pins connector pin

4

5

### Pin function

CAN High

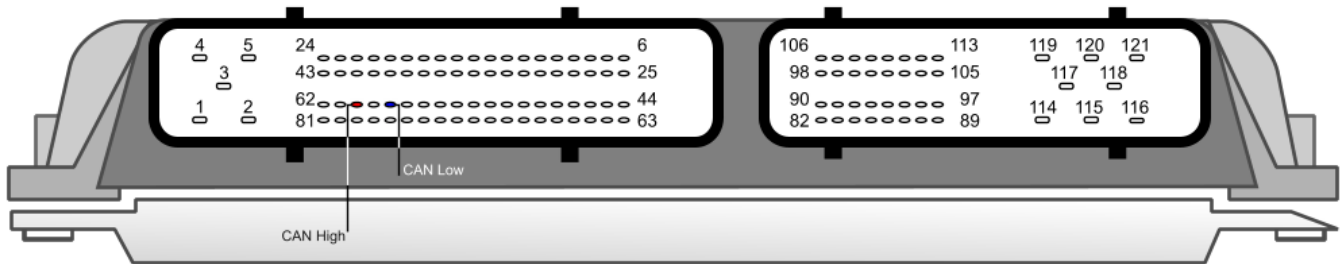
CAN Low

### AiM cable

CAN+

CAN-

Here below you see ECU pinout on top and connection table on bottom.



## 2

# AiM Logger configuration

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Before connecting the ECU to the logger, set it up 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 "Porsche" and ECU Model "MS4\_997\_GT3\_RSR"
- transmit the configuration to the device pressing "Transmit".

## 3

# Available channels

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

ID	CHANNEL NAME	FUNCTION
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
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	Gear shift
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