AiM Infotech

# Lamborghini Gallardo ECU

Release 1.03

This tutorial explains how to connect Lamborghini cars to AiM devices. Supported models and years are:
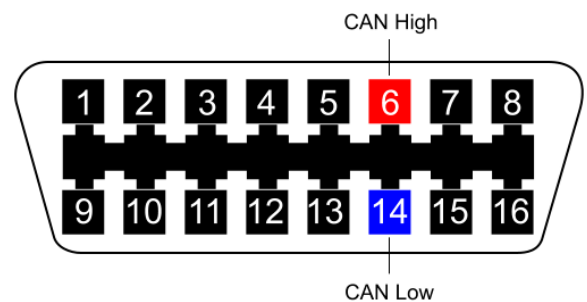
- Lamborghini                    Gallardo                    2008-2013

# 1
# CAN connection

Gallardo cars feature a bus communication protocol based on CAN on the OBDII plug located left under the steering column as shown here below on the left. On the right is OBDII connector pinout and below connection table.



| OBDII connector pin | Pin function | AiM cable |
|---|---|---|
| 6 | CAN High | CAN+ |
| 14 | CAN Low | CAN- |

# 2
# AiM device configuration

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

- ECU manufacturer "Lamborghini"
- ECU Model "Gallardo"

# 3
# Available channels

Channels received by AiM devices connected to "Lamborghini" "Gallardo" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|---|---|---|
| ECU_1 | LM_RPM | RPM |
| ECU_3 | LM_WATER_TEMP | Engine coolant temperature |
| ECU_4 | LM_ENG_MOM1 | Engine moment bank 1 |
| ECU_5 | LM_AIR_TEMP | Intake air temperature |
| ECU_6 | LM_GAS_PERC | Gas percentage |
| ECU_7 | LM_BRK_PRESS | Brake pressure |
| ECU_8 | LM_VEH_SPEED | Vehicle speed |
| ECU_12 | LM_ATM_TEMP | Atmospheric temperature |
| ECU_13 | LM_OILTEMP | Oil temperature |
| ECU_14 | LM_FRLF_SPEED | Front left wheel speed |
| ECU_15 | LM_FRRG_SPEED | Front right wheel speed |
| ECU_16 | LM_RRLF_SPEED | Rear left wheel speed |
| ECU_17 | LM_RRRG_SPEED | Rear right wheel speed |
| ECU_18 | LM_YAW_RATE | Yaw rate |
| ECU_19 | LM_STEER_SPEED | Steering speed |
| ECU_20 | LM_STEER_ANG | Steering angle |
| ECU_21 | LM_BRK_SW | Brake switch |
| ECU_22 | LM_FUEL | Fuel level |
| ECU_23 | LM_GEAR | Engaged gear |
| ECU_24 | LM_ENGOIL_TEMP | Engine oil temperature |
| ECU_26 | LM_CLUTCH | Clutch switch |
| ECU_28 | LM_ENG_MOM2 | Engine moment bank 2 |
| ECU_29 | LM_SHIFT_ACT | Shift actuator |

**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.