

AiM Infotech

## Nissan GTR Skyline (R35) ECU

Release 1.01

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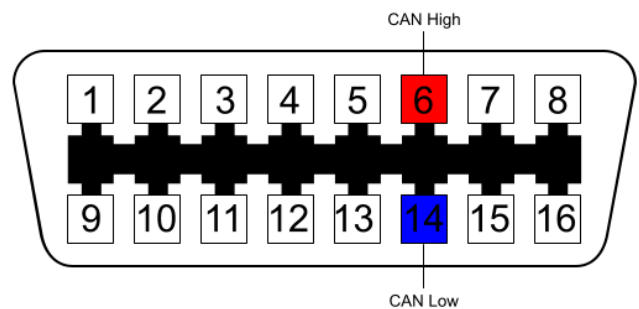
This tutorial explains how to connect Nissan cars to AiM devices. Supported models and years are:

- Nissan GTR Skyline (R35) from 2007

# 1

## CAN connection

These cars feature a bus communication protocol based on CAN on the OBDII plug located under on the driver side left of the dashboard as shown here below on the left. On the right is connector pinout and below connection table.



### OBDII connector pin

6  
14

### Pin function

CAN High  
CAN Low

### AiM cable

CAN+  
CAN-

## 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 "Nissan" and ECU Model "GT-R Skyline"
- transmit the configuration to the device pressing "Transmit".

## 3

# Available channels

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Channels received by AiM devices connected to "Nissan" "GT-R Skyline" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	GTR_RPM	RPM
ECU_2	GTR_VEH_SPEED	Vehicle speed
ECU_3	GTR_PPS	Pedal position sensor
ECU_4	GTR_GEAR	Engaged gear
ECU_5	GTR_BRAKE_SW	Brake switch
ECU_6	GTR_BRAKE_POS	Brake position
ECU_7	GTR_BOOST	Boost pressure
ECU_8	GTR_SPEED_FR	Front right wheel speed
ECU_9	GTR_SPEED_FL	Front left wheel speed
ECU_10	GTR_SPEED_RR	Rear right wheel speed
ECU_11	GTR_SPEED_RL	Rear left wheel speed
ECU_12	GTR_PPS2	Pedal position sensor 2
ECU_13	GTR_BRAKE_SW2	Brake switch 2
ECU_14	GTR_GEAR_AUTOM	Automatic gear mode active



ECU_15	GTR_ECT	Engine coolant temperature
ECU_16	GTR_OILT	Oil temperature
ECU_17	GTR_GEARBOX_T	Gearbox oil temperature
ECU_18	GTR_OILP	Oil pressure
ECU_19	GTR_STEER_ANG	Steering angle
ECU_20	GTR_STEER_SPD	Steering speed
ECU_21	GTR_ACC_LONG	Longitudinal accelerometer
ECU_22	GTR_ACC_LAT	Lateral accelerometer
ECU_23	GTR_DIFF_CTRL	Differential control
ECU_24	GTR_TC_OFF	Traction control off
ECU_25	GTR_SUSP_CAL	Suspension calibration

**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.