

AiM Infotech

Nissan 350Z  
2006-2009

Release 1.04

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ECU



This tutorial explains how to connect Nissan 350Z to AiM devices. Supported models and years are:

- Nissan 350Z 2006-2009

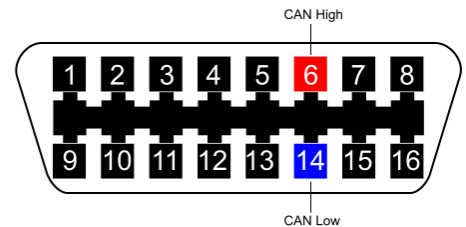
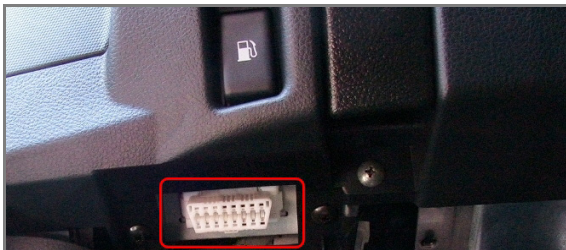
# 1

## Available connections

Nissan 350Z ECU features a bus communication protocol based on CAN. This can be reached through the OBDII plug or through the ECU front connector.

### 1.1 OBDII connection

The OBDII plug is on the left side of the car cockpit as shown here below on the left. On the right you see connector pinout and below is connection table.



#### OBDII connector pin

6  
14

#### Pin function

CAN High  
CAN Low

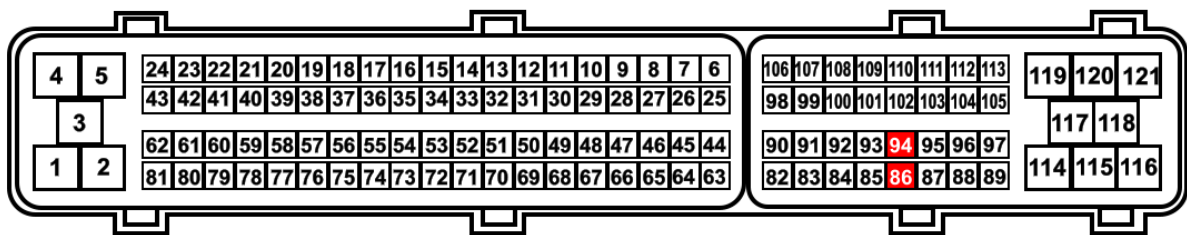
#### AiM cable

CAN+  
CAN-

## 1.2

# ECU Connection on Nissan 350Z 2006

Nissan 350Z 2006 ECU has a 121 pins connector, shown here below, used to communicate parameters to an external logger. Connector pinout as well as connection table are shown here.



94 CAN+

86 CAN-

### 116 Pins connector pin

### Pin function

### AiM cable

94

CAN High

CAN+

86

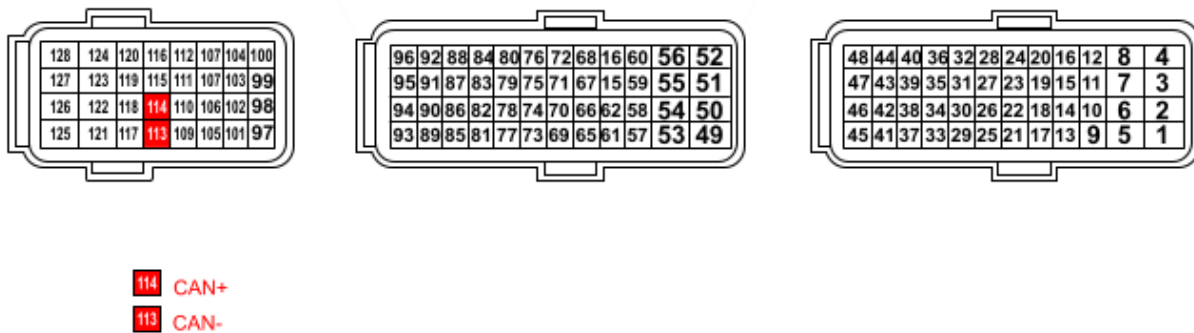
CAN Low

CAN-

## 1.3

# ECU Connection on Nissan 350Z 2007

Nissan 350Z 2007 ECU has a 128 pins connector made up of three parts and shown here below, used to communicate parameters to an external logger. Connector pinout as well as connection table are shown here.



### 116 Pins connector pin

### Pin function

### AiM cable

114

CAN+

CAN+

113

CAN-

CAN-

## 2

# AiM Logger configuration

Before connecting the ECU to AiM device set it up as follows:

Run Race Studio 2 software and follow this path:

- 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 "350Z";
- transmit the configuration to the device pressing "Transmit".

## 3

# Available channels

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Channels received by AiM loggers connected to "Nissan" "350Z" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	NISSAN_RPM	RPM
ECU_2	NISSAN_SPEED	Vehicle speed
ECU_3	NISSAN_PEDAL_POSITION	Pedal position sensor
ECU_4	NISSAN_BRAKE_SWITCH	Brake switch
ECU_5	NISSAN_ENGINE_COOLANT_TEMP	Engine coolant temperature
ECU_6	NISSAN_STEERING_ANGLE	Steering angle
ECU_7	NISSAN_OIL_PRESS_SWITCH	Oil pressure switch
ECU_11	NISSAN_WH_FL	Front left wheel speed
ECU_12	NISSAN_WH_FR	Front right wheel speed
ECU_13	NISSAN_WH_RL	Real left wheel speed
ECU_14	NISSAN_WH_RR	Real right wheel speed

**Technical note for ECU connection:** 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.

**In case of OBDII connection, please note:** channels listed above are those polled by AiM devices. They may or may not come across in the data stream depending on models. RPM, TPS,ECT and speed are generally available.