

AiM Infotech

Nissan 350Z
2006-2009

Release 1.05



ECU



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

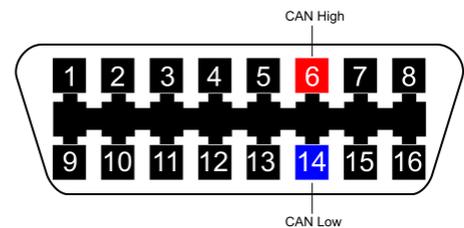
- Nissan 350Z 2006-2009

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

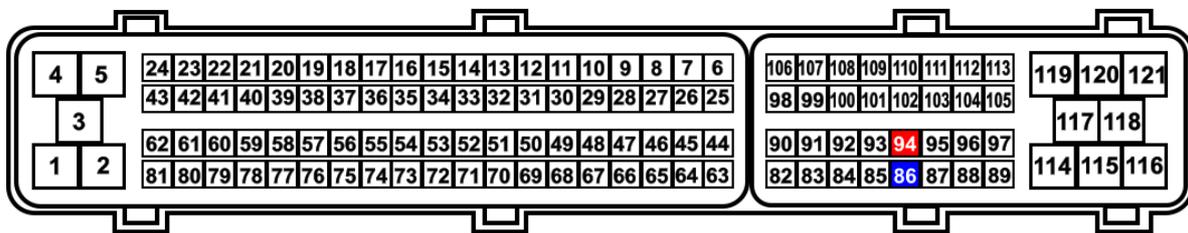
The OBDII plug is on the left side of the car cockpit as shown here below on the left. On the right you see connector pinout and below is connection table.



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

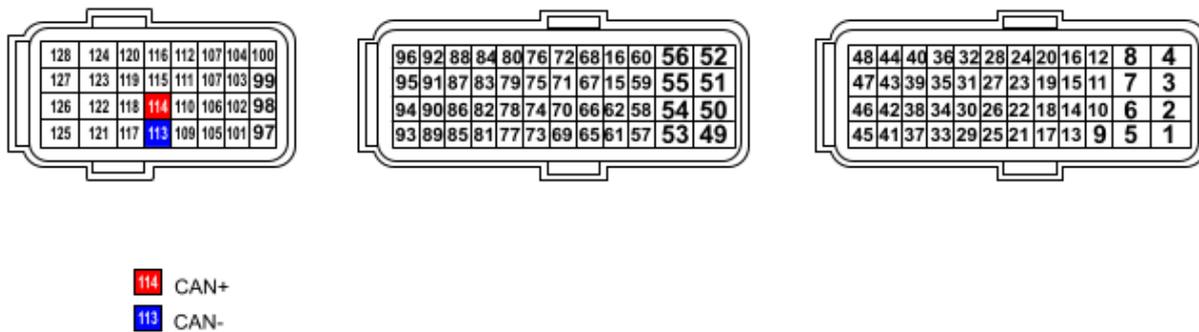


94 CAN+
86 CAN-

| 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 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 "Nissan"
- ECU Model "350Z";

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Available channels

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.