AiM Infotech

Toyota GT86
Scion FR-S
Subaru BRZ

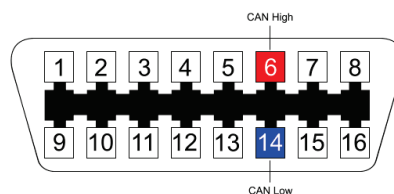## Release 1.08

ECU

1
Models and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.
Supported models and years are:

- Toyota GT86   from 2012
- Subaru BRZ   from 2012
- Scion FR-S   2012 - 2016

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"OBDII" Wiring Connection

These models feature a standard diagnostic protocol based on CAN, accessible through the OBDII plug placed near the pedal area, under the steering column. For this installation refer to the following pinout of the OBDII plug (vehicle side – front view) and connection table.

OBDII Pin	Pin function	AiM cable	AiM color cable
6	CAN High	CAN+	White
14	CAN Low	CAN-	Blue

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Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **Toyota**
- ECU Model: **GT86/SCION_FRS**

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"Toyota – GT86 SCION FRS" protocol

Channels received by AiM loggers connected to "Toyota – GT86/SCION_FRS" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Gear	Vehicle speed
SpeedAverage	Average vehicle speed
WheelSpeedFL	Front left wheel speed
WheelSpeedFR	Front right wheel speed
WheelSpeeRL	Rear left wheel speed
WheelSpeedRR	Rear right wheel speed
CAT1	First Catalyser temperature
CAT2	Second Catalyser temperature
IntakeAirT	Intake air temperature
OilTemp	Oil temperature
ECT	Engine coolant temperature
AmbientTemp	Ambient temperature
BrakePress	Brake pressure
MAP	Manifold air pressure
Baro	Barometric pressure

SteerAngle	Steering wheel angle position
PPS	Pedal position sensor
TPS	Throttle position sensor
Lambda	Lambda
ClutchSw	Clutch switch
BrakeSw	Brake switch

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.