AiM Infotech

Toyota GT86
Scion FR-S
Subaru BRZ

Release 1.06

This tutorial explains how to connect Toyota cars to AiM devices.

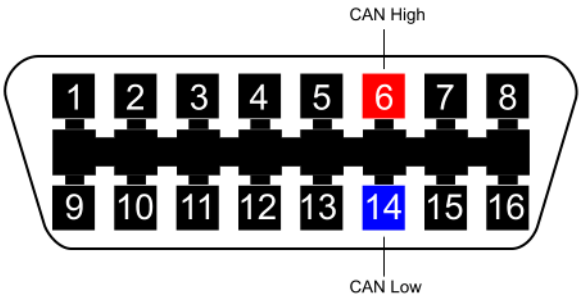
1 Supported models and years

Supported car models and years are:

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

2 Wiring connection

Toyota GT86/Scion FR-S/Subaru BRZ feature a data transmission bus based on CAN on the OBDII plug placed near the pedal area under the steering column. Connector pinout as well as connection table are shown here below



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

3 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 “Toyota”
- ECU Model “GT86/SCION_FRS”;

4 Available channels

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

ID	CHANNEL NAME	FUNCTION
ECU_1	TOYO_RPM	RPM
ECU_2	TOYO_SPEED_VEH	Vehicle speed
ECU_3	TOYO_PEDAL_POS	Pedal position sensor
ECU_4	TOYO_BRAKE_PREX	Brake pressure
ECU_5	TOYO_STEER_ANG	Steering angle
ECU_6	TOYO_BRAKE_SW	Brake switch
ECU_7	TOYO_ECT	Engine Coolant Temperature
ECU_8	TOYO_IAT	Intake air temperature
ECU_9	TOYO_MAP	Manifold air pressure
ECU_10	TOYO_AAT	Ambient Air Temperature
ECU_11	TOYO_BARO	Barometric pressure
ECU_12	TOYO_LAMBDA	Lambda value
ECU_13	TOYO_THROTTLE	Throttle position
ECU_14	TOYO_CAT1_T	First Catalyser temperature
ECU_15	TOYO_CLUCH_SW	Clutch switch
ECU_17	TOYO_WHE_FL	Front left wheel speed

ECU_18	TOYO_WHE_FR	Front right wheel speed
ECU_19	TOYO_WHE_RL	Rear left wheel speed
ECU_20	TOYO_WHE_RR	Rear right wheel speed
ECU_21	TOYO_OIL_T	Oil temperature
ECU_22	TOYO_GEAR	Engaged gear

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.