

AiM InfoTech

TOYOTA
GR Supra GT4
GR Supra GT4 23

Release 1.01



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:

- | | |
|----------------------------|-------------|
| • GR Supra GT4 MY2020 | 2020 – 2022 |
| • GR Supra GT4 EVO MY2023 | 2023 – 2024 |
| • GR Supra GT4 EVO2 MY2025 | 2025 |

2 Wiring connection

These models feature a specific protocol based on CAN, previously accessible through the **Deutsch DTM04-6P** male connector labelled **SRO** dedicated to data logging purposes:

DTM04-6P conn. pin	Function	AiM cable	AiM color cable
1	Ground	GND	Black
4	V Battery	9-15V	Red
5	SRO CAN H	CAN+	White
6	SRO CAN L	CAN-	Blue

With EVO2 kit, the update of electronic systems requires to change access to CAN data using the connector labelled **TEAM CAM**, a **Deutsch DTM06-4S**:

DTM06-6S conn. pin	Function	AiM cable	AiM color cable
1	V Battery	9-15V	Red
2	Ground	GND	Black
3	CAN3 H	CAN+	White
4	CAN3 L	CAN-	Blue

3

RaceStudio 3 configuration

Before connecting AiM device to the ECU, set all functions using up AiM RaceStudio 3 software. The parameters to set in the device configuration are:

- ECU manufacturer: **TOYOTA**
- ECU Model: **GR SUPRA GT4** (RaceStudio3 only)
for GR Supra GT4 MY2020

GR SUPRA GT4 23 (RaceStudio3 only)
for GR Supra GT4 EVO MY2023
for GR Supra GT4 EVO2 MY2025

4.1

“TOYOTA – GR SUPRA GT4” protocol

Channels received by AiM devices configured with "TOYOTA – GR SUPRA GT4" protocol are:

CHANNEL NAME	FUNCTION
nEngine	Engine RPM
aSteering	Steering wheel position
nGear	Engaged gear
rThrottle	Throttle position sensor
pBrakef	Front brake pressure
pBrakeR	Rear brake pressure
pOil	Oil pressure
vCar	Vehicle speed
Fuel Used	Fuel used
tCrankcase	Crank case temperature
tOilsump	Oil temperature
tWater1	Water temperature
Twater1 AiM	Water temperature
Press FL	Front left wheel pressure
Temp FL	Front left wheel temperature
Press FR	Front right wheel pressure
Temp FR	Front right wheel temperature
Press RL	Rear left wheel pressure
Temp RL	Rear left wheel temperature
Press RR	Rear right wheel pressure
Temp RR	Rear right wheel temperature

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.

4.2

“TOYOTA – GR SUPRA GT4 23” protocol

Channels received by AiM devices configured with "TOYOTA – GR SUPRA GT4 23" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
aSteering	Steering wheel position
nGear	Engaged gear
rPedal	Throttle pedal position sensor
ABS pBrake FA	Front axle brake pressure
ABS pBrake RA	Rear axle brake pressure
vCar	Vehicle speed
pOil	Oil pressure
tOil	Oil temperature
Oillevel	Oil level
tAirbox	Airbox intake temperature
tDiff	Differential oil temperature
tOil gbx	Gearbox oil temperature
tWater2	Water temperature
tWater1	Water temperature
FCY State	Full Course Yellow switch input state
TC Active	Cylinders to cut from TC control
ABS Active	ABS active state
Pit State	Pit active state
LapDistance	Lap distance display
LapTrigger	Lap trigger display
ABS gLongitudina	Longitudinal acceleration
ABS gLateral	Lateral acceleration
xDamper FL	Front left damper travel
xDamper FR	Front right damper travel



xDamper RL	Rear left damper travel
xDamper RR	Rear right damper travel
tBrakeFL	Front left brake temperature
tBrakeFR	Front right brake temperature
tBrakeRL	Rear Left brake temperature
tBrakeRR	Rear right brake temperature
TPMS pTyre FL	Front left wheel pressure
TPMS pTyre FR	Front right wheel pressure
TPMS pTyre RL	Rear left wheel pressure
TPMS pTyre RR	Rear right wheel pressure
TPMS TTyre FL	Front left wheel temperature
TPMS TTyre FR	Front right wheel temperature
TPMS TTyre RL	Rear left wheel temperature
TPMS TTyre RR	Rear right wheel temperature
Display Lapcount	Lap counter display
Powerstick ID	Powerstick ID
GPS Lat	GPS Latitude
GPS Long	GPS Longitude
TC Pos	Traction control rotary selector position
Pedal map	Pedale map rotary selector position
EPS Pos	Selected map Electric power steering
vBatt	Battery voltage
ABS Pos	Abs rotary selector position
Log Trig	Active logging triggered
Fuel qFuelConsum	Fuel consumed (in liters) since last reset
Display RunningP	Running pit time display

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.