



AiM InfoTech

Mercedes AMG GT3
Mercedes AMG GT4

Release 1.00



ECU

1 Model and years

This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.

Supported models and years are:

- Mercedes AMG GT3 2015 – 2019
- Mercedes AMG GT4 2018 onwards

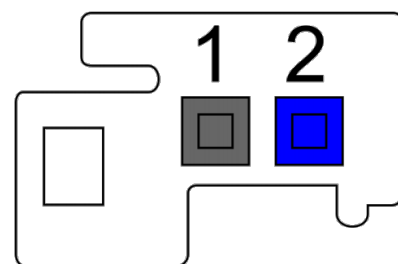
2 Connection

These models feature different data bus and communication protocols based on CAN on the CANbus 3, also named Scrutineering or Customer CAN.

This CAN bus is accessible through the connector located on the gateway, on the passenger side (right side) footrest area.

The counterpart coupler to be used is shown below on the left.

For this installation refer to the following pinout of the connector (vehicle side – front view) and connection table.



Connector	Pin function	AiM cable
1	CAN High	CAN +
2	CAN Low	CAN -

3

Race Studio configuration

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

- ECU manufacturer: **Mercedes**
- ECU model: **AMG GT GT3 LIM** (RS2)
GT GT3 042 (RS3)

4

Protocols

Channels received by AiM devices change according to the selected protocol.

4.1

"Mercedes – AMG GT GT3 LIM" protocol

Channels received by AiM devices configured with "Mercedes – AMG GT GT3 LIM" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Speed	Vehicle speed
TPS	Throttle position sensor bank 1
TPS_2	Throttle position sensor bank 2
ACCY	Y-axis acceleration
Brake_press_F	Brake pressure front
Brake_press_R	Brake pressure rear
Fuel_press	Fuel pressure
Gear	Gear
Mapping	Map selection
PPS	Acceleration position
Speed_fl	Front left wheel speed
Speed_fr	Front right wheel speed
Speed_rl	Rear left wheel speed
Speed_rr	Rear right wheel speed
Water_temp	Engine coolant temperature
Steer_angle	Steering angle
Fuel_tank	Fuel level
Fuel_cons	Fuel consumption

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.

4.2

"Mercedes – GT GT3 042" protocol

Channels received by AiM devices configured with "Mercedes –GT GT3 042" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Speed	Vehicle speed
TPS	Throttle position sensor bank 1
TPS 2	Throttle position sensor bank 2
ACCY	Y-axis acceleration
Brake press F	Brake pressure front
Brake press R	Brake pressure rear
Fuel press	Fuel pressure
Gear	Engaged gear
Mapping	Selected map
PPS	Pedal position sensor
Speed fl	Front left wheel speed
Speed fr	Front right wheel speed
Speed rl	Rear left wheel speed
Speed rr	Rear right wheel speed
Water temp	Engine coolant temperature
Steer angle	Steering angle
Fuel tank	Fuel level

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.