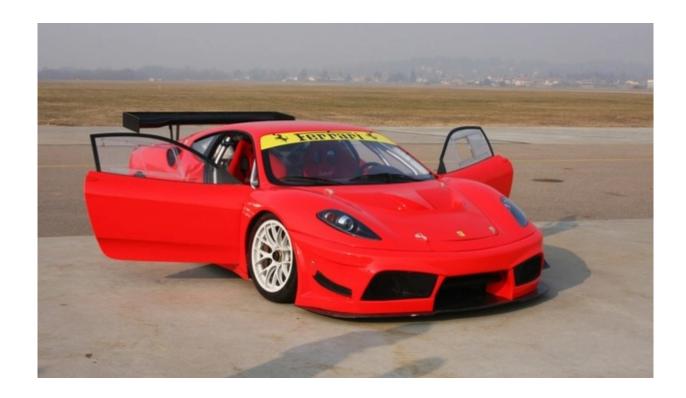
Ferrari F430 GT3 ECU Connection







INTRODUCTION

AIM has developed special applications for many of the most common ECUs: by special applications we mean user-friendly systems which allow to easily connect the vehicle ECU to our hi-tech data loggers: user needs only to install harness between the **logger** and the ECU.

Once connected, the logger displays (and/or records, depending on the model and on the ECU data stream) values like RPM, engine load, throttle position (TPS), air and water temperatures, battery voltage, speed, gear, lambda value (air/fuel ratio) analog channels...

All AlM loggers include – free of charge – **Race Studio 2** software, a powerful tool to configure the system and analyze recorded data on your PC.

Warning: once the ECU is connected to the logger, it is necessary to set it in the logger configuration in Race Studio 2 software.

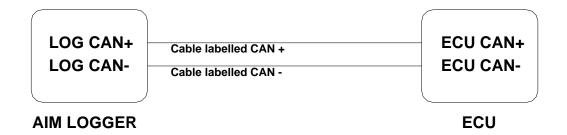
Select Manufacturer "Ferrari" and Model "430 (ECU Bosch)".

Refer to Race Studio Configuration on user manual for further information concerning the loggers configuration.



1 – CAN communication setup

Ferrari F430 GT3 ECUs are equipped with a CAN communication protocol used to communicate parameters to an external devices. The standard communication setup is shown here below.

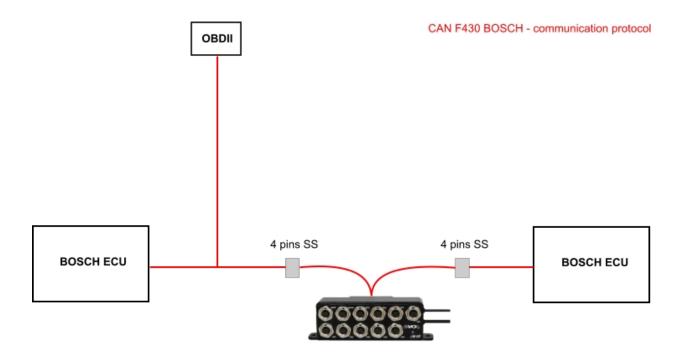


2 - Connection to AIM loggers

Ferrari F430 GT3 is equipped with two Bosch ECUs which communicate using 4 pins Superseal connector. These ECUs are placed under the cover, behind the seats. With reference to the image below, put the AIM logger between the Bosch ECUs as follows:

- connect AIM cable labelled CAN+ to pin 1 of 4 pins Superseal connectors.
- connect AIM cable labelled CAN- to pin 2 of 4 pins Superseal connectors.

The images here below show the connection scheme and connections detail.





Pins numbers are printed on the connectors.



3 - Communication protocol

Channels received by AIM logger connected to Bosch ECUs are listed here below:

ID	CHANNEL NAME	FUNCTION
ECU_1	F430_RPM	RPM
ECU_2	F430_WH_SPD_FL	Wheel Speed Front Left
ECU_3	F430_WH_SPD_FR	Wheel Speed Front Right
ECU_4	F430_WH_SPD_RL	Wheel Speed Rear Left
ECU_5	F430_WH_SPD_RR	Wheel Speed Rear Right
ECU_6	F430_VEH_SPEED	Vehicle Speed
ECU_7	F430_PPS	Pedal Position Sensor
ECU_8	F430_GEAR	Engaged gear
ECU_9	F430_STEER_ANG	Steering angle
ECU_10	F430_BRK_SW	Brake switch
ECU_11	F430_STEER_SPD	Steering speed
ECU_12	F430_ECT	Engine coolant temperature
ECU_13	F430_OILT	Oil temperature