AiM Infotech

Bosch MS 3.1 Formula3 P2P

Release 1.01

ECU

This tutorial explains how to connect Bosch MS3.1 ECU to AiM devices.

1 Supported models

This tutorial concerns these vehicles running:

- Formula 3 German championship with Push to Pass (P2P) management.

2 Connection to AiM devices

The vehicle is equipped with a Bosch MS3.1 ECU. To connect it to AiM devices use the 22 pins Deutsch female diagnosis connector normally placed behind the driver helmet above the engine.

Here below you see the 22 pins Deutsch female diagnosis connector installed on the left, its pinout on the right and bottom of them the connection table.

Deutsch connector pin	Pin function	AiM cable
4	CAN High	CAN+
16	CAN Low	CAN-

3 AiM device configuration

Before connecting the ECU to AiM device set this up using AiM software. The parameters to select in the device configuration are:

- ECU manufacturer “Bosch”
- ECU Model "MS3.1_FORMULA3_P2P";

4 Available channels

Channels received by AiM devices connected to "Bosch" "MS3.1_FORMULA3_P2P" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	FM3_RPM	RPM
ECU_2	FM3_CAR_SPEED	Car speed
ECU_3	FM3_TPS_BUTFLY	Butterfly position
ECU_4	FM3_TPS	Throttle pedal position
ECU_5	FM3_BRAKE_PR	Brake pressure
ECU_6	FM3_STEERANGLE	Steering angle
ECU_7	FM3_GEAR	Engaged gear
ECU_8	FM3_LAP_NUM	Lap number
ECU_9	FM3_PITLANE	Pit lane limiter
ECU_10	FM3_INTKAIRT	Intake air temperature
ECU_11	FM3_BATTVOLT	Battery supply
ECU_12	FM3_MAP_POS	Manifold air pressure position
ECU_13	FM3_P2P_COUNT	Push to pass counter
ECU_14	FM3_P2P_ACTIVE	Push to pass active
ECU_15	FM3_P2P_READY	Push to pass ready
ECU_16	FM3_L_FUELCONS	Last lap fuel consumption
ECU_17	FM3_O_FUELCONS	Overall laps fuel consumption