

AiM Infotech

Bosch MS4 SPORT
OPC CANEXT 4.50.0 ECU

Release 1.00



CANEXT 4-50-0

ECU



1

Supported models

This tutorial explains how to connect Bosch MS4 ECU to AiM devices. Supported ECU model is:

- Bosch MS4 Sport OPC (Opel Performance Center) CANEXT 4-50-0 protocol

2

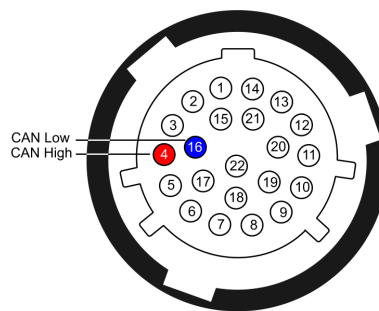
Connection to AiM devices

Bosch MS4 Sport OPC CAN EXT 4-50-0 ECU feature a bus communication protocol based on CAN that can be reached in two ways:

- on the ECU front left connector
- on the 22 pins Deutsch female diagnosis connector.

2.1 Connection through 22 pins Deutsch connector

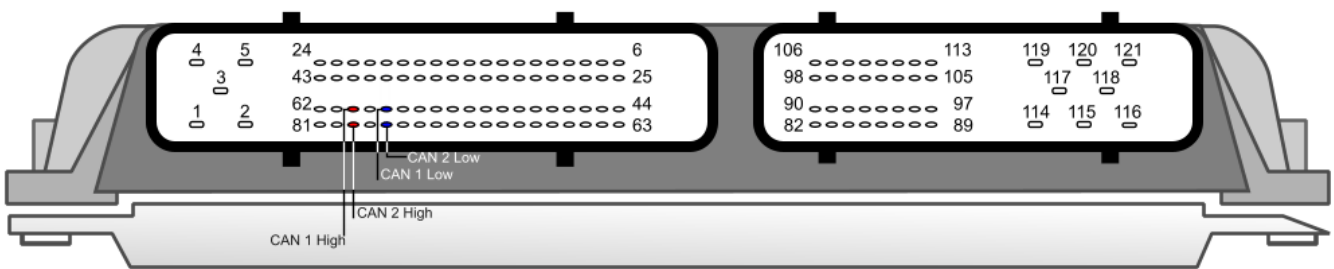
AiM would recommend this connection. The 22 pins diagnosis Deutsch female connector is on the ECU harness and here below you see its pinout and connection table.



22 pins Deutsch connector pin	Pin function	AiM cable
4	CAN 1 High	CAN+
16	CAN 1 Low	CAN-

2.2 Direct ECU connection

Here below is ECU pinout and bottom of it connection table.



ECU connector pin	Pin function	AiM cable
60	CAN 1 High	CAN+
58	CAN 1 Low	CAN-
79	CAN 2 High	CAN+
77	CAN 2 Low	CAN-

Warning: never connect pins belonging to different couples like pin 60 (CAN 1 High) with pin 77 (CAN 2 Low).

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: "Bosch"
- ECU Model: "MS4_SPORT_OPC_4-50-0"

4

Available channels

Channels received by AiM devices connected to "Bosch" "MS4_SPORT_OPC_4-50-0" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	OPC_RPM	RPM
ECU_2	OPC_SPEED_VEH	Vehicle speed
ECU_3	OPC_SPEED_FL	Front left wheel speed
ECU_4	OPC_SPEED_FR	Front right wheel speed
ECU_5	OPC_SPEED_RL	Rear left wheel speed
ECU_6	OPC_SPEED_RR	Rear right wheel speed
ECU_7	OPC_THROTTLE	Throttle position sensor
ECU_8	OPC_IGN_ANGLE	Ignition angle
ECU_9	OPC_COOLANT_T	Engine coolant temperature
ECU_10	OPC_OIL_T	Oil temperature
ECU_11	OPC_FUEL_T	Fuel temperature
ECU_12	OPC_AIRBOX_T	Airbox temperature
ECU_13	OPC_TC_POS	Traction control position
ECU_14	OPC_MAP_POS	Manifold air pressure position
ECU_15	OPC_GEAR	Engaged gear
ECU_16	OPC_GBOX_SHF_V	Gearbox shift voltage



ECU_17	OPC_GBOX_POS_V	Gearbox position voltage
ECU_18	OPC_BATT_VOLT	Battery supply
ECU_19	OPC_P22	Manifold air pressure P22
ECU_20	OPC_BARO_PR	Barometric pressure
ECU_21	OPC_OIL_PR	Oil pressure
ECU_22	OPC_FUEL_PR	Fuel pressure
ECU_23	OPC_WATER_PR	Water pressure
ECU_24	OPC_CRANK_PR	Crank pressure
ECU_25	OPC_EXH_GAS_T1	Exhaust gas temperature 1
ECU_26	OPC_EXH_GAS_T2	Exhaust gas temperature 2
ECU_27	OPC_LAMBDA_T1	Lambda temperature 1
ECU_28	OPC_LAMBDA_T2	Lambda temperature 2
ECU_29	OPC_LAMBDA_1	Lambda value 1
ECU_30	OPC_LAMBDA_2	Lambda value 2
ECU_31	OPC_BRAKE_R_PR	Rear brake pressure
ECU_32	OPC_BRAKE_F_PR	Front brake pressure