AiM Infotech

Trijekt Premium ECU

Release 1.01

ECU

This tutorial explains how to connect Trijekt Premium ECU to AiM devices. This ECU bit rate can be user programmed at 1Mbit or at 500 kbit.

1 Wiring connection

Trijekt Premium ECU features a data transmission bus based on CAN the front 121 pins connector. Here below you see connection table.

121 pins connector pin	Pin function	Cable colour	AiM cable
58	CAN High	Pink	CAN+
60	CAN Low	Brown	CAN-

2 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 “Trijekt”
- ECU Model
  - "CAN_1Mbit"
  - "CAN_500kbit"

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Available channels

Channels received by AiM devices connected to Trijekt "1Mbit"/"500 kbit" protocol are the same. They only differ in the transmission bit rate.

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_TORQUE	Engine torque
ECU_3	ECU_ENG_STATE	Engine status
ECU_4	ECU_CONSUMPTION	Fuel consumption
ECU_5	ECU_TPS	Throttle position sensor
ECU_6	ECU_TPS_TARGET	Throttle position sensor target
ECU_7	ECU_TPS_DBW	Throttle position sensor - drive by wire
ECU_8	ECU_ENGINE_TEMP	Engine temperature
ECU_9	ECU_AIR_TEMP	Intake air temperature
ECU_10	ECU_INTERNAL_T	Internal temperature
ECU_11	ECU_OIL_TEMP	Oil temperature
ECU_12	ECU_FUEL_TEMP	Fuel temperature
ECU_13	ECU_MAN_AIR_P	Manifold air pressure
ECU_14	ECU_BAROM_P	Barometric pressure
ECU_15	ECU_FUEL_PRES	Fuel pressure
ECU_16	ECU_OIL_PRES	Oil pressure
ECU_17	ECU_LAMBDA_1	Lambda 1 value
ECU_18	ECU_LAMBDA_2	Lambda 2 value
ECU_19	ECU_LAMBDA_T1	Lambda 1 temperature
ECU_20	ECU_LAMBDA_T2	Lambda 2 temperature
ECU_21	ECU_LAMB_TRAG1	Lambda 1 target
ECU_22	ECU_LAMB_TARG2	Lambda 2 target
ECU_23	ECU_WHE_SPD_1	First wheel speed
ECU_24	ECU_WHE_SPD_2	Second wheel speed

ECU_25	ECU_WHE_SPD_3	Third wheel speed
ECU_26	ECU_WHE_SPD_4	Fourth wheel speed
ECU_27	ECU_FRONT_SPD	Front speed
ECU_28	ECU_REAR_SPD	Rear speed
ECU_29	ECU_SLIP	ECU slip
ECU_30	ECU_GEAR	Engaged gear
ECU_31	ECU_CLUCH_SW	Clutch switch
ECU_32	ECU_BRAKE_SW	Brake switch
ECU_33	ECU_EXHA_T1	Exhaust gas temperature 1
ECU_34	ECU_EXHA_T2	Exhaust gas temperature 2
ECU_35	ECU_EXHA_T3	Exhaust gas temperature 3
ECU_36	ECU_EXHA_T4	Exhaust gas temperature 4
ECU_37	ECU_BATTERY	Battery supply
ECU_38	ECU_MAP_VOLT	Manifold air pressure voltage
ECU_39	ECU_IAT_VOLT	Intake air temperature voltage
ECU_40	ECU_KNOK_SENS	Knock sensor
ECU_41	ECU_INJ_TI_B1	ECU injection time B1
ECU_42	ECU_IGN_AN_B1	ECU ignition angle B1
ECU_43	ECU_INJ_TI_B2	ECU injection time B2
ECU_44	ECU_IGN_AN_B2	ECU ignition angle B2