AiM User Guide

Ignitech Ignijet 12A

Release 1.00

ECU

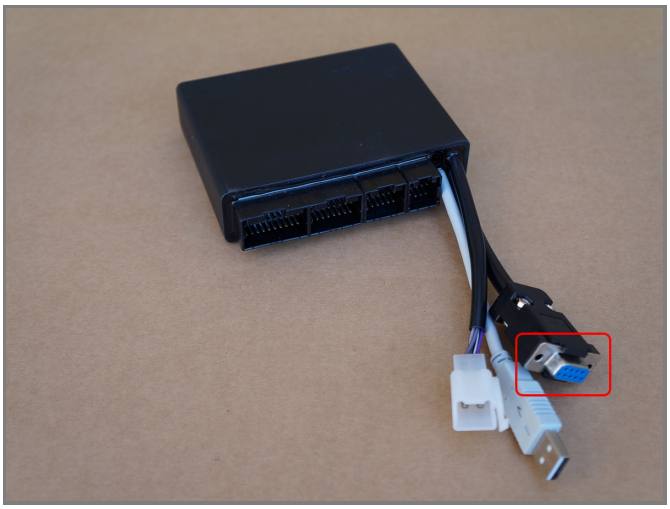
1 Supported models

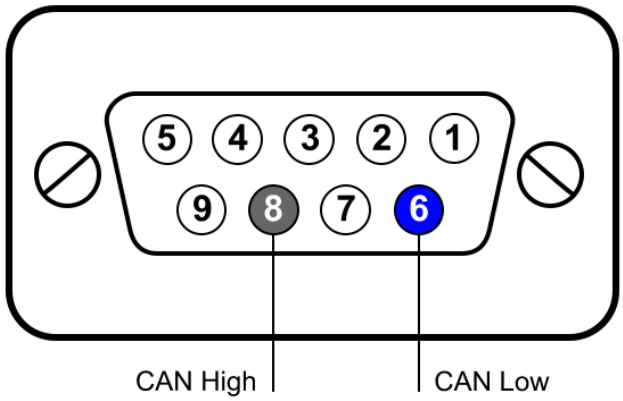
This user guide explains how to connect Ignitech ECU to AiM devices. Supported model is:

- Ignitech Ignijet 12A

2 Wiring connection

Ignitech Ignijet 12A ECU features a bus communication protocol based on CAN on the external DB9 female connector you find on the ECU harness. Here below on the left it is highlighted. On the right is DB9 connector pinout front viewe and bottom of it is connection table.





Pin	Function	AiM cable
8	CAN High	CAN+
6	CAN Low	CAN-

3 AiM device configuration

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

- ECU manufacturer “Ignitech”
- ECU Model “Ignijet_12A”

4 Available channels

Channels received by AiM devices connected to "Ignitech" "Ignijet_12A" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	AFR	Air/Fuel ratio
ECU_3	AFR1	Air/Fuel ratio bank 1
ECU_4	BARO_P	Barometric pressure
ECU_5	V_BATT	Battery supply
ECU_6	EXH_SERVO	Voltage of exhaust servo position sensor (measured)
ECU_7	IN_SERVO	voltage of inlet servo position sensor (measured)
ECU_8	POT_VOLT	voltage of potentiometer
ECU_9	REAR_SPD	Rear speed
ECU_10	MAP	Manifold air pressure
ECU_11	THROTTLE	Throttle position sensor
ECU_12	TPS_CORR_INJ	Injection correction from throttle position sensor
ECU_13	FRONT_SPD	Front speed
ECU_14	SLIP	Slip angle
ECU_15	ADV_RET_TRK	Track advance retard
ECU_16	VEH_SPD_DER	Vehicle speed derivative

ECU_17	RPM_DER	RPM derivative
ECU_18	ADV_RET_ACC	Retard advance from acceleration
ECU_19	ACC_THRESHOLD	Acceleration threshold
ECU_20	DEG_FAULT_IGN	Ignition outside the range
ECU_21	PROP_EFFECT	Desired proportional effect
ECU_22	MIN_ADV_DES	Minimum desired advance
ECU_23	ST_LIMIT	Start limiter function
ECU_24	ST_LIMIT_RPM	RPM limiter
ECU_25	FLAG_LIMITER	Start limiter flag
ECU_26	IGN_ADV	Ignition advance
ECU_27	INJ_TA_1	Main injection time cycle 1
ECU_28	INJ_TB_1	Secondary injection time cycle 1
ECU_29	ENG_T	Engine temperature
ECU_30	INT_AIR_T	Intake air temperature
ECU_31	GEAR	Engaged gear
ECU_32	GEAR_STATE	Registered gear
ECU_33	PROPRIETARY1	Custom channel 1
ECU_34	PROPRIETARY2	Custom channel 2
ECU_35	PROPRIETARY3	Custom channel 3
ECU_36	FLAG_MULTI1	Status of multifunction input
ECU_37	FLAG_MULTO2	Status of multifunction output
ECU_38	VOLT_MIN1	Voltage Min1
ECU_39	VOLT_MIN2	Voltage Min2
ECU_40	VOLT_MIN3	Voltage Min3
ECU_41	CMP_TP	Value correction of injection from comp maps TP
ECU_42	CMP_IAP	Value correction of injection from comp maps IAP
ECU_43	PROPRIETARY4	Custom channel 4
ECU_44	FLAG_OUT_RNG	Flag out range
ECU_45	FLAG_MAX_VAL	Flag max value
ECU_46	PROPRIETARY5	Custom channel 5
ECU_47	PROPRIETARY6	Custom channel 6
ECU_48	PROPRIETARY7	Custom channel 7