AiM Infotech

Fast XFI ECU

Release 1.00

ECU

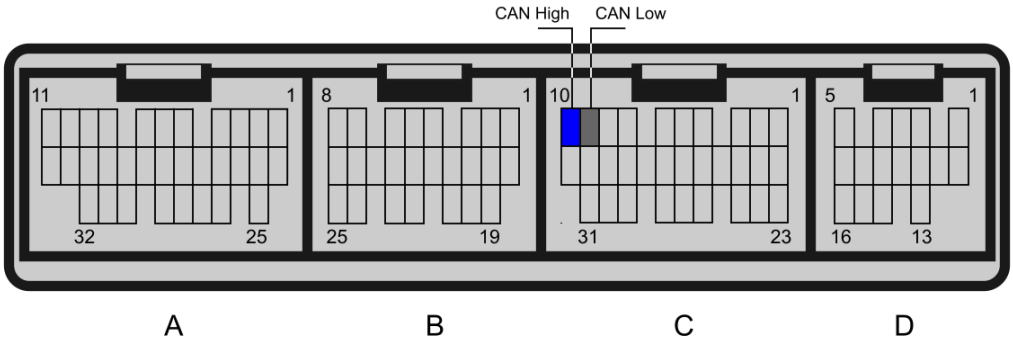
1 Supported models and years

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

- Fast XFI

2 CAN bus connection

Fast XFI ECU features a bus communication protocol based on CAN. Front on the ECU are four connectors labelled from "A" to "D" and shown here below on top; the CAN bus is on "C" connector. Bottom of the connector is connection table.



Pin	Pin function	AiM cable
C9	CAN High	CAN+
C10	CAN Low	CAN-

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 logger configuration are:

- ECU Manufacturer: "FAST"
- ECU Model: "XFI"

4 Available channels

Channels received by AiM Devices connected to "FAST" "XFI" are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	VOL_EFFICEN	Volume efficiency
ECU_3	CALIB_CTS	Calibrated coolant temperature sensor
ECU_4	ACC_X	Horizontal acceleration
ECU_5	ACC_Y	Vertical acceleration
ECU_6	ACC_Z	Lateral acceleration
ECU_7	TROUBLE_C1	Trouble code 1
ECU_8	TROUBLE_C2	Trouble code 2
ECU_9	AUX_ANALOG1	Auxiliary analog channel 1
ECU_10	PA_PW	Fuel engine control
ECU_11	FUEL_ECO	Fuel consumption
ECU_12	TARGET_AFR	Target Air/Fuel ratio
ECU_13	PA_FLAGS	Power added flags
ECU_14	FLAG_1	Fuel pump on
ECU_15	FLAG_2	WBO2 enabled

ECU_16	TPS_RAW	Throttle position sensor raw value
ECU_17	CTS_RAW	Coolant temperature sensor raw value
ECU_18	IGN_VOLT	Ignition voltage
ECU_19	INJ_PW	Injection power
ECU_20	CTS_CORR	CTS Correction
ECU_21	O2_CORR	Wideband O2 Correction
ECU_22	AFTER_START_C	After Start Correction coefficient
ECU_23	ATS_CORR	Air Temp. Correction Coefficient
ECU_24	BATT_CORR	Battery correction
ECU_25	BARO_CORR	Barometric correction
ECU_26	GROS_CORR	Coolant Temperature Sensor & Air Temperature Sensor correction sum
ECU_27	AUX_ANALOG2	Auxiliary analog channel 2
ECU_28	SPEED	Vehicle speed
ECU_29	GROS_PW	Gross Injector Pulse Width
ECU_30	BASE_PW	Base Injector Pulse Width
ECU_31	BARO	Barometric pressure
ECU_32	EGR	Exhausted gas recirculation indicator
ECU_33	MPG	Estimated Fuel Economy
ECU_34	ON_TIME_s	Time since key on
ECU_35	SPARK_ADV	Spark advance
ECU_36	ATS_SPK_TRIM	Air temp sensor spark offset (relative)
ECU_37	TARG_AFR_GASOL	Target Air/Fuel ratio gasoline
ECU_38	ACTUAL_AFR	Actual Air/Fuel ratio
ECU_39	OIL_P	Oil pressure
ECU_40	H2O_P	Water pressure
ECU_41	FUEL_P	Fuel pressure
ECU_42	INJ_P	Injection pressure
ECU_43	FUEL_P_CORR	Fuel pressure correction
ECU_44	EGT1	Exhaust gas temperature 1
ECU_45	EGT2	Exhaust gas temperature 2
ECU_46	AUX_ANALOG3	Auxiliary analog channel 3

ECU_47	AUX_ANALOG4	Auxiliary analog channel 4
ECU_48	AUX_ANALOG5	Auxiliary analog channel 5
ECU_49	AUX_ANALOG6	Auxiliary analog channel 6
ECU_50	AUX_ANALOG7	Auxiliary analog channel 7
ECU_51	AUX_ANALOG8	Auxiliary analog channel 8
ECU_52	MAP	Manifold air pressure
ECU_53	CRANK_ERR	Crank error
ECU_54	UEGO_AF	Corrected Air/Fuel ratio
ECU_55	CTS_SPK_TRIM	Coolant temp sensor spark offset (relative)
ECU_56	CTS_AF_TRIM	Coolant temp sensor Air/Fuel offset (relative)