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AiM InfoTech

Fast XFI ECU

Release 1.01

ECU

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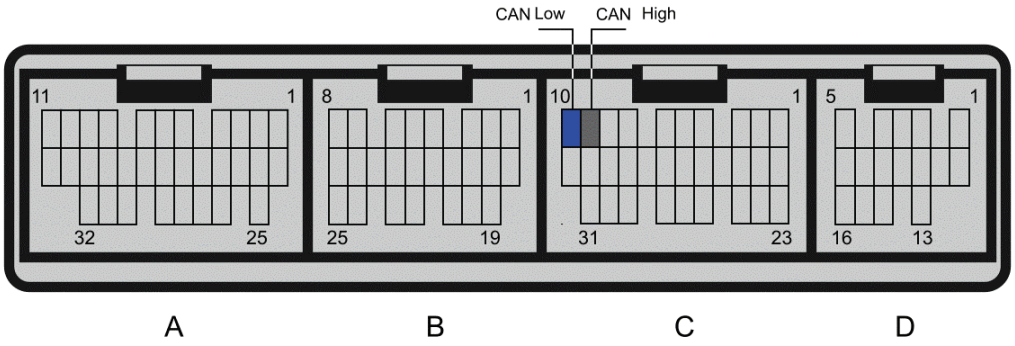
This tutorial explains how to connect AiM devices to Fast XFI ECU.

1
Wiring connection

For Fast XFI ECU, it is possible to connect to AiM devices through the front “C” connector (following pictures). Here below you find the ECU “C” connector pinout and connection table.



“C” connector pin	Function	AiM cable label
C9	CAN High	CAN+
C10	CAN Low	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: **FAST**
- ECU Model: **XFI**

3
"FAST – XFI" protocol

Channels received by AiM loggers connected to "FAST – XFI" protocol are:

CHANNEL NAME	FUNCTION
RPM	RPM
Speed	Vehicle speed
AccX	Inline accelerometer
AccY	Lateral accelerometer
AccZ	Vertical accelerometer
EGT1	Exhaust gas temperature 1
EGT2	Exhaust gas temperature 2
CalibCTS	Calibrated coolant temperature sensor
OilPress	Oil pressure
FuelPress	Fuel pressure
InjPress	Injection pressure
H2OPress	Water pressure
Baro	Barometric pressure
MAP	Manifold air pressure
ATS SparkTrim	Air temperature sensor spark offset (relative)

SparkAdv	Spark advance
GrossCorr	Coolant Temperature Sensor & Air Temperature Sensor correction sum
VolEfficen	Volume efficiency
CTSCorr	CTS correction
O2Corr	Wideband oxygen corrector
AfterStartC	After start correction coefficient
ATSCorr	Air temperature correction coefficient
BattCorr	Battery voltage correction
BaroCorr	Barometric pressure correction
PaPw	Fuel engine control
GrosPw	Gross injector pulse width
BasePw	Base injector pulse width
IGNVolt	Ignition voltage
AuxAnalog5	Auxiliary analog channel 5
TPSRaw	Throttle position sensor raw value (voltage)
CTSRaw	Coolant temperature sensor raw value (voltage)
AuxAnalog1	Auxiliary analog channel 1
AuxAnalog2	Auxiliary analog channel 2
AuxAnalog3	Auxiliary analog channel 3
AuzAnalog4	Auxiliary analog channel 4
TargAFRGasol	Target air/fuel ratio gasoline
ActualAFR	Actual air/fuel ratio
TargetAFR	Target air/fuel ratio
OnTimeS	Time (seconds) since key on
Flag1	Fuel pump on
PaFlags	Power added flags
FuelEco	Fuel consumption
FuelPCorr	Fuel pressure correction
TroubleC1	Trouble code 1
TroubleC2	Trouble code 2
MPG	Estimated fuel economy

EGR	Exhausted gas recirculation indicator
InjPw	Injection power
Flag2	WBO2 enabled
AuxAnalog6	Auxiliary analog channel 6
AuxAnalog7	Auxiliary analog channel 7
AuxAnalog8	Auxiliary analog channel 8
CrankErr	Crank error
UegoAF	Corrected air/fuel ratio
CTSSparkTrim	Coolant temp sensor spark offset (relative)
CTSAFTrim	Coolant temp sensor air/fuel offset (relative)