



AiM Infotech

Nira EDC-CR

Release 1.01



ECU



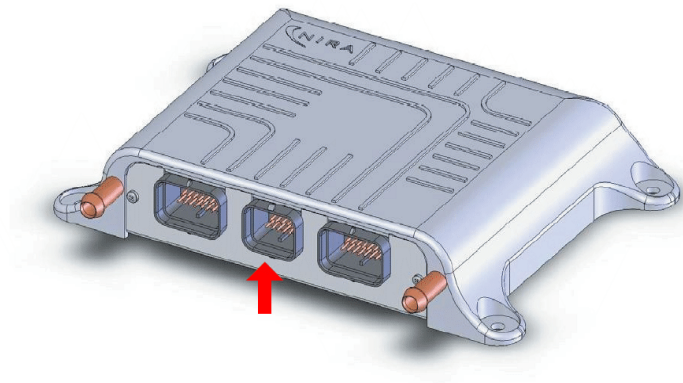
1 Introduction

This user manual explains how to connect Nira ECUs to AiM devices. Supported model is:

- Nira EDC-CR

2 Wiring connection

Nira EDC-CR features a bus communication protocol based on CAN on the central “B” male connector highlighted here below. Bottom of it is connection table.



Central “B” connector pin	Pin function	AiM cable
23	CAN High	CAN+
24	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 device configuration are:

- ECU manufacturer "Nira"
- ECU Model: "EDC/CR"

4

Available channels

Channels received by AiM devices connected to "Nira" "EDC/CR" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	RPM	RPM
ECU_2	ENG_TORQUE	Engine torque
ECU_3	FUEL_PRESS	Fuel pressure
ECU_4	FUEL_TEMP	Fuel temperature
ECU_5	ENG_COOL_TEMP	Engine coolant temperature
ECU_6	ENG_OIL_PRESS	Oil pressure
ECU_7	THROTTLE_POS	Throttle position sensor
ECU_8	INT_MANIF_TEMP	Intake Manifold temperature
ECU_9	BOOST_PRESS	Boost pressure
ECU_10	BOOST_REG_DEM	Boost pressure demand
ECU_11	BOOST_OUT1DUTY	Boost pressure actuator duty 1
ECU_12	BOOST_OUT2DUTY	Boost pressure actuator duty 2
ECU_13	AFR_RATIO	Air fuel ratio
ECU_14	FUEL_CTRL_MODE	Fuel control mode
ECU_15	PWM_VCV_DUTY1	Custom frame
ECU_16	PWM_PCV_DUTY1	Custom frame
ECU_17	MAIN_INJ_TIME	Main injection time
ECU_18	POST_INJ_TIME	Post injection time
ECU_19	MAIN_INJ_ANGLE	Main injection angle
ECU_20	POST_INJ_ANGLE	Post injection angle
ECU_21	FLEXPOR_T_MISC1	Custom frame
ECU_22	FLEXPOR_T_MISC2	Custom frame
ECU_23	FLEXPOR_T_MISC3	Custom frame
ECU_24	FLEXPOR_T_MISC4	Custom frame