AiM Infotech

Marelli SRA

Release 1.01



ECU





This tutorial explains how to connect Marelli SRA EDL8 ECU to AiM devices.

1

Software setting

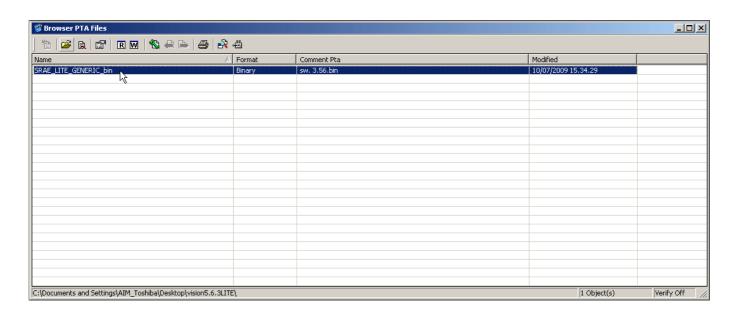
Marelli SRA ECU needs a software setting to correctly communicate with AiM devices. To perform it use Marelli "Vision" software and follow these instruction.

Run the software and follow this path:

Map-> Open PTA Window

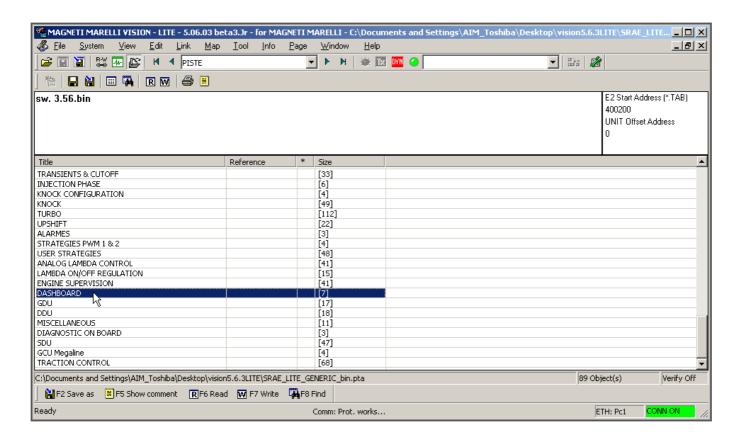


• A MAP file is normally available in the PTA files browser. If not browse the PC and double click on it.

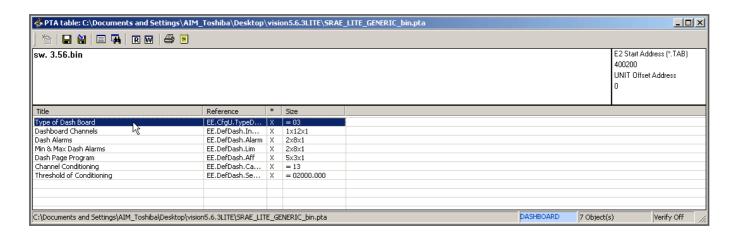




Scroll "PTA Table" window and double click "Dashboard"



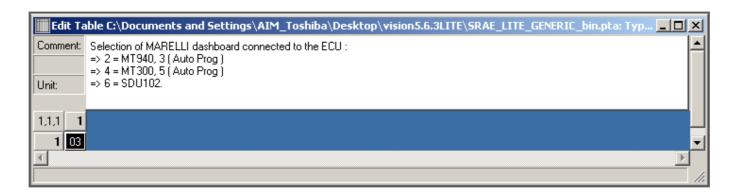
Double click "Type of Dash Board"



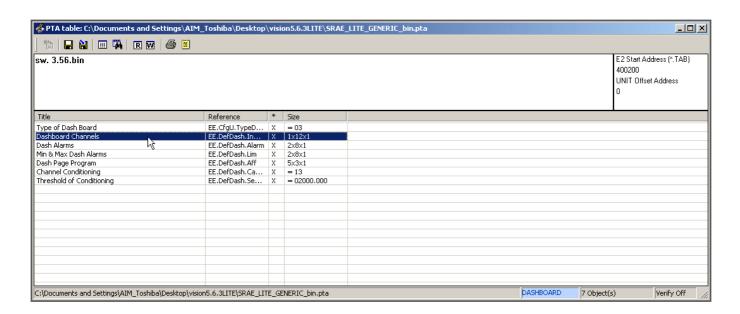
InfoTech



Double click the only settable cell and fill in "3" (Auto Prog)

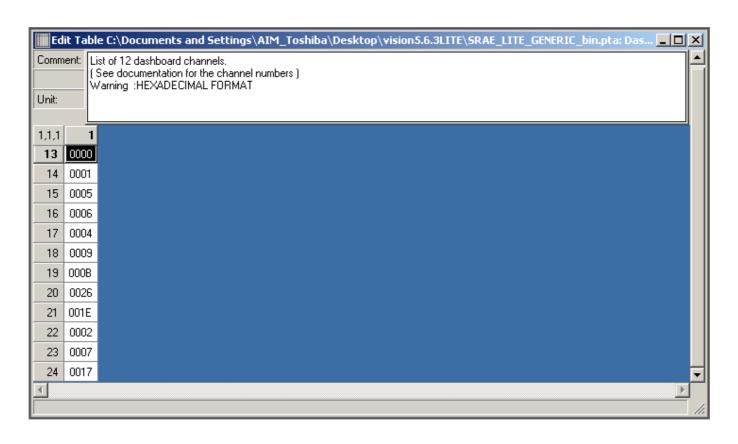


• Double click "Dashboard Channels"





- Fill "Dashboard channels" table with the following values:
 - 0000
 - 0001
 - 0005
 - 0006
 - 0004
 - 0009
 - o 000B
 - 0 0026
 - o 001E
 - 0 0002
 - 0007
 - 0 0017



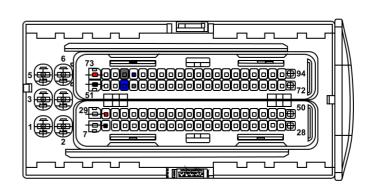


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Connection to AiM devices

Magneti Marelli SRA EDL8 ECU features a bus communication protocol based on CAN on the 94 pins front right connector. Here below it is indicated on the left; on the right is connector pinout in detail.





Here below is connection table. The ECU has two CAN lines: CAN0 and CAN1; AiM suggests to use CAN1.

Please note: be sure to **never** cross CAN High and CAN low of different CAN lines.

94 Pins connector pin	Pin function	AiM cable
76	CAN0 High	CAN+
54	CAN0 Low	CAN-
55	CAN1 High	CAN+
77	CAN2 Low	CAN-
8 or 51	Ground	GND
73 or 30	Battery Positive Pole	9-15 VDC



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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 "MARELLI"
- ECU Model "SRA_EDL8"

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Available channels

Channels received by AiM devices connected to "MARELLI" "SRA_SRAE_SRT" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	EDL8_RPM	RPM
ECU_2	EDL8_TPS	Throttle position sensor
ECU_3	EDL8_ECT	Engine coolant temperature
ECU_4	EDL8_OILT	Oil temperature
ECU_5	EDL8_OILP	Oil pressure
ECU_6	EDL8_FUELP	Fuel pressure
ECU_7	EDL8_BATTV	Battery supply
ECU_8	EDL8_GEAR	Engaged gear
ECU_9	EDL8_LAMBDA	Lambda value
ECU_10	EDL8_SPEED	Vehicle speed
ECU_11	EDL8_MAP	Manifold air pressure
ECU_12	EDL8_AIR_T	Intake air temperature