AiM Infotech

Marelli SRA

Release 1.01

SRA-EDL8

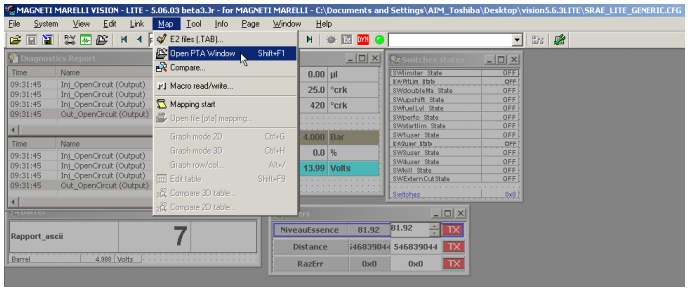
ECU

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

1
Software setting

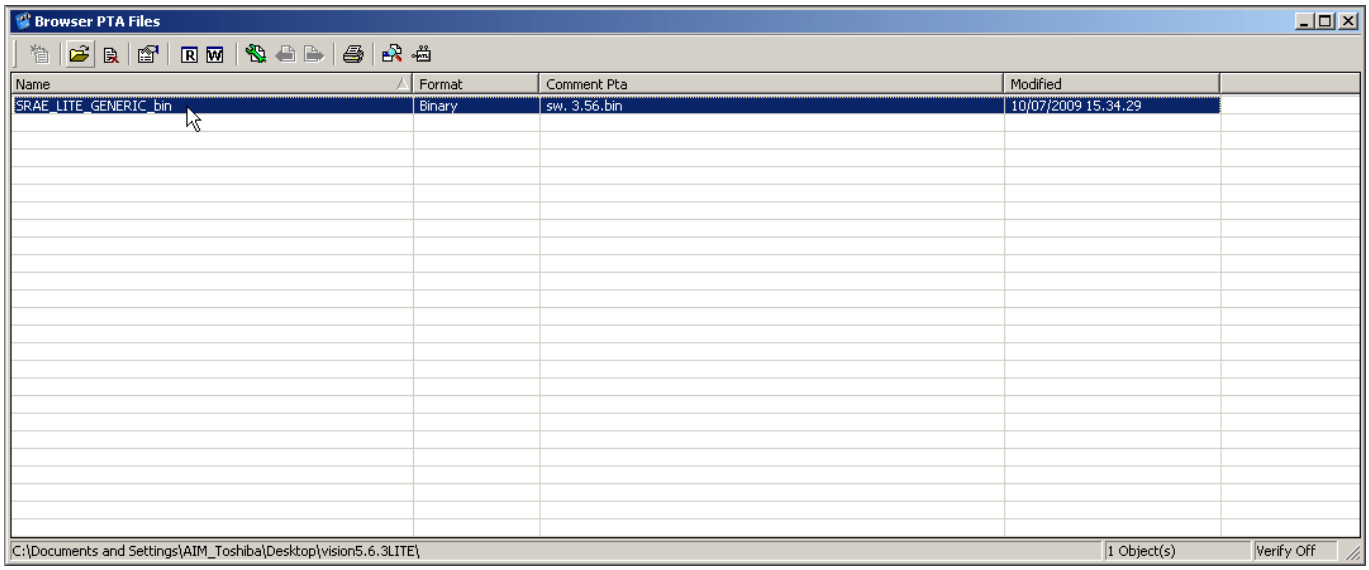
Marelli SRA ECU needs a software setting to correctly communicate with AiM devices. To perform it use Marelli "Vision" software and follow these instruction.

Run the software and follow this path:

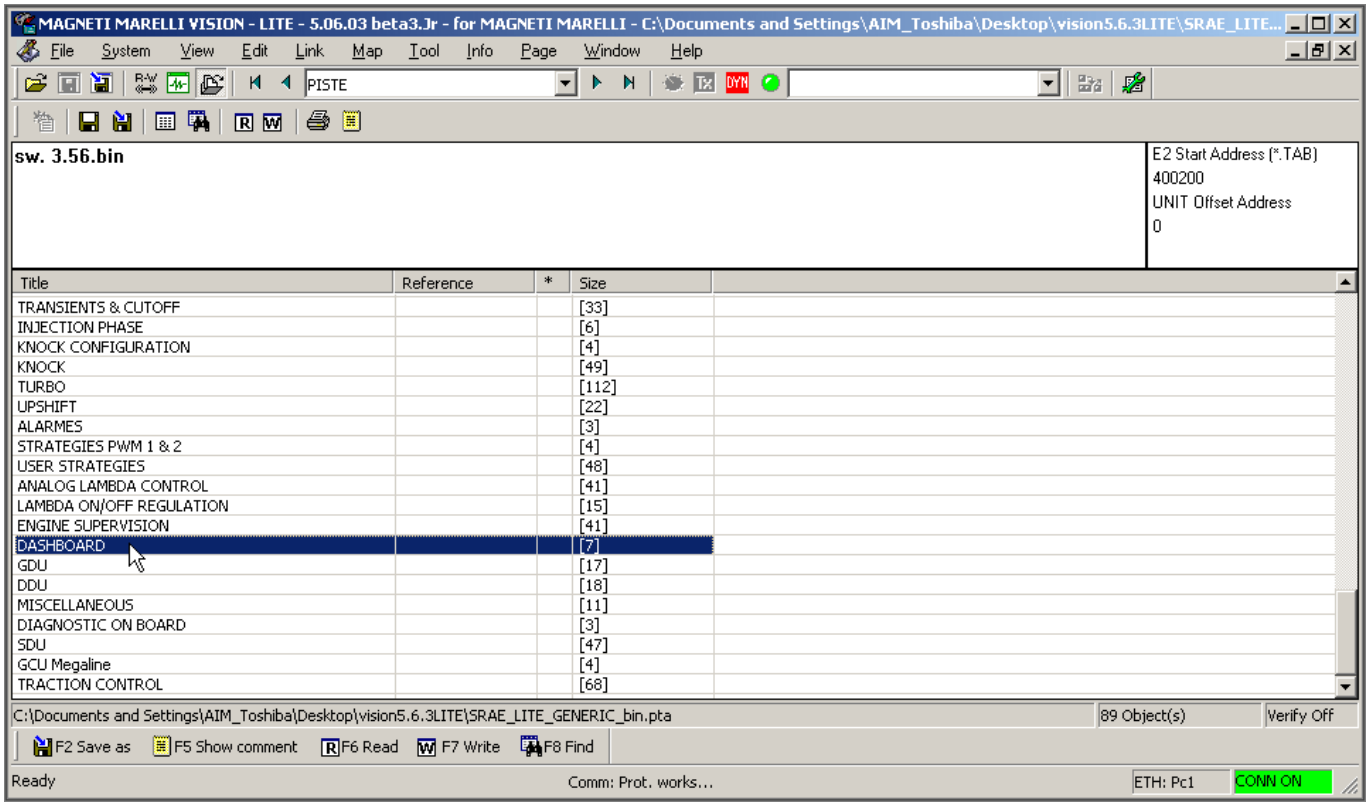


- Map–> Open PTA Window

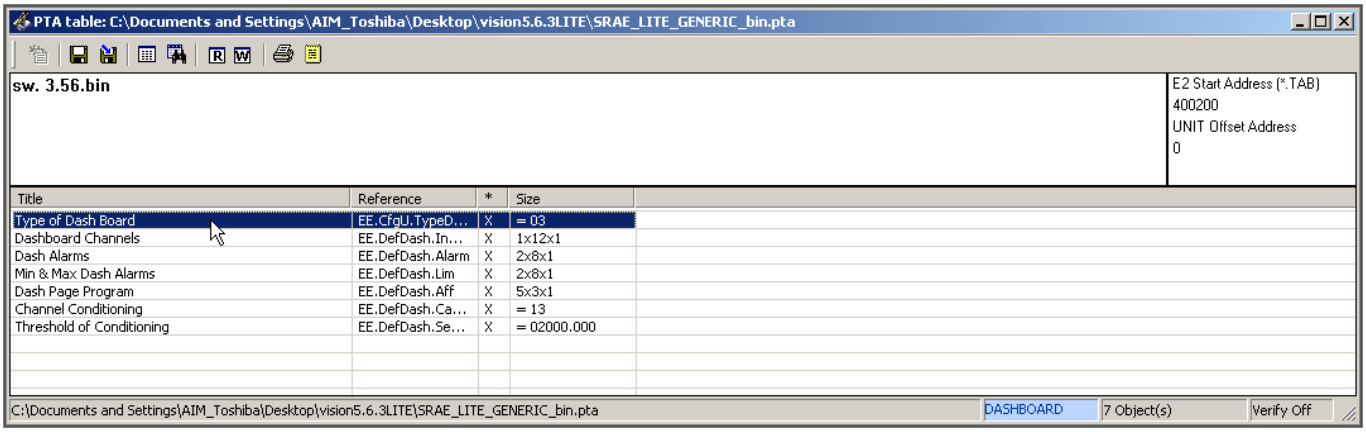
- A MAP file is normally available in the PTA files browser. If not browse the PC and double click on it.



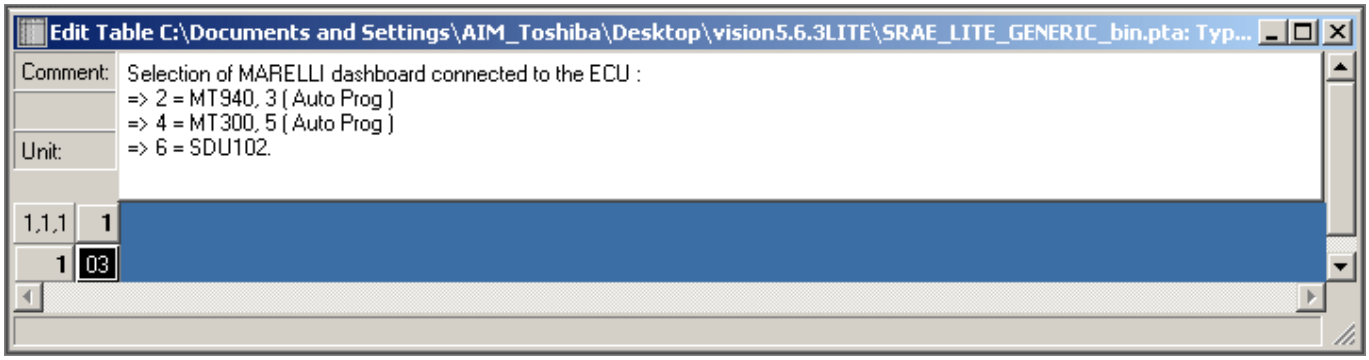
- Scroll "PTA Table" window and double click "Dashboard"



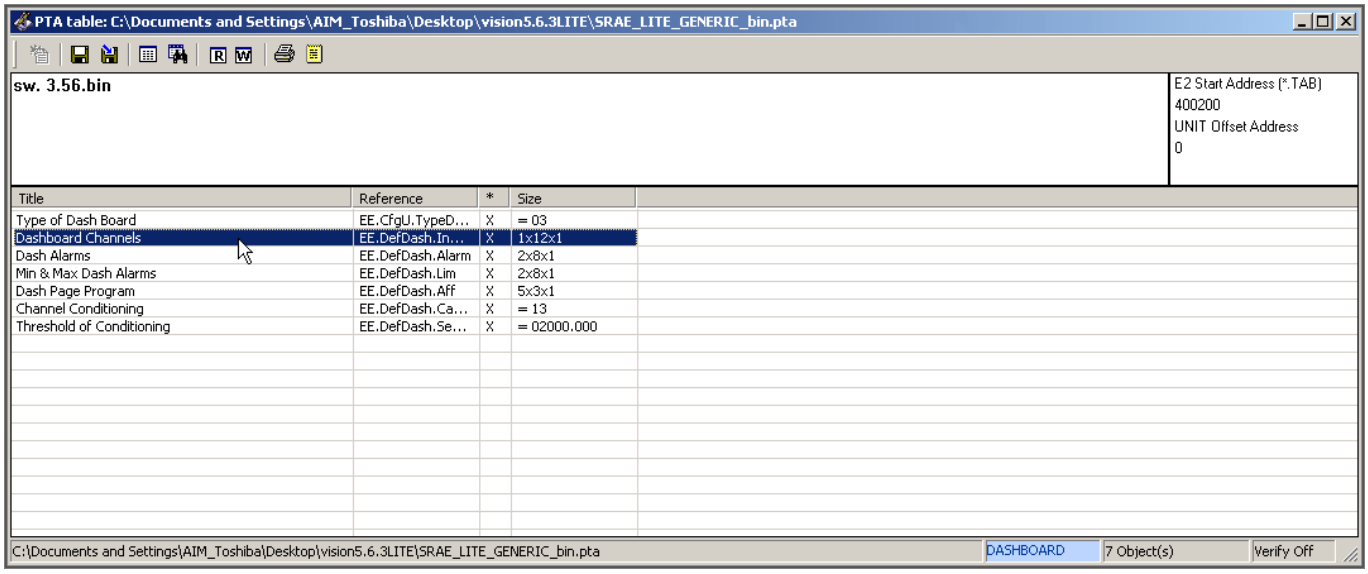
- Double click "Type of Dash Board"



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

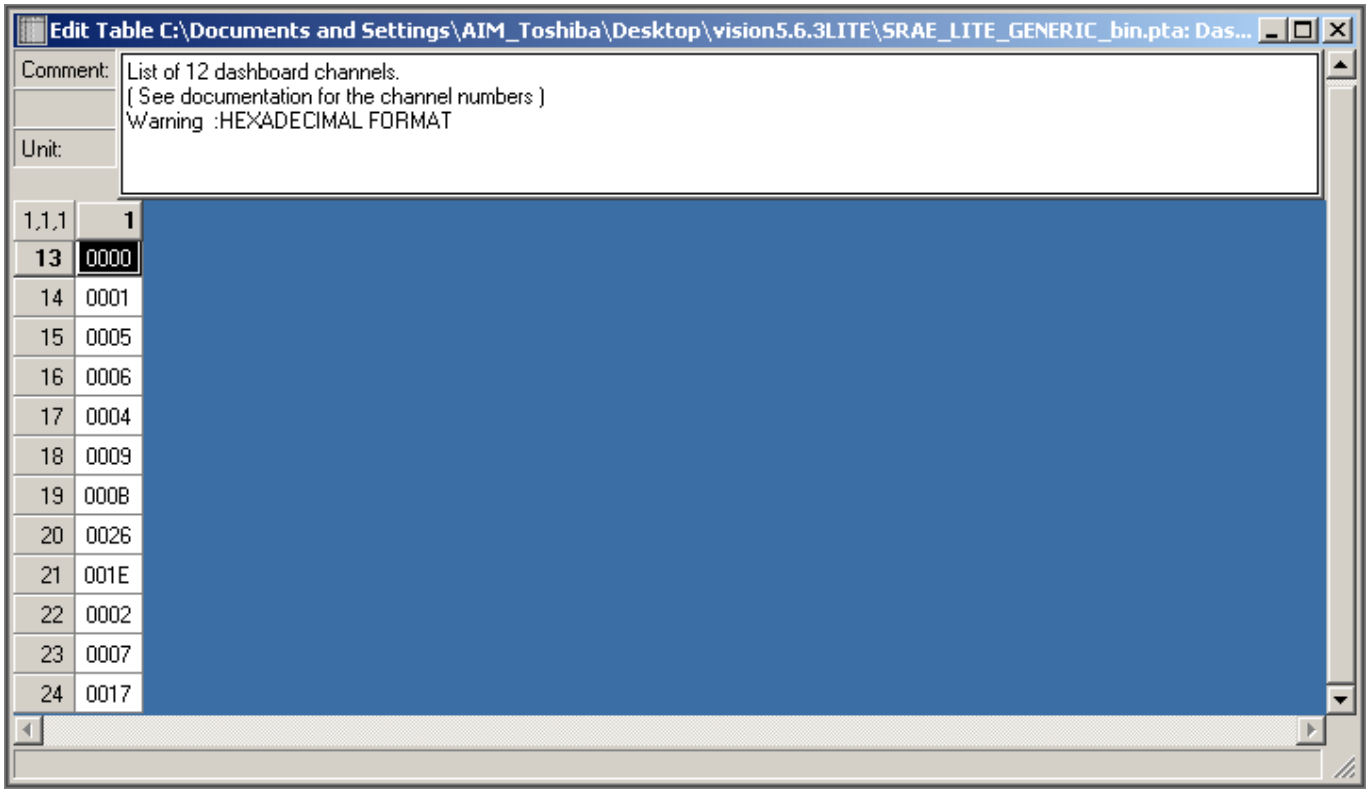


- Double click "Dashboard Channels"



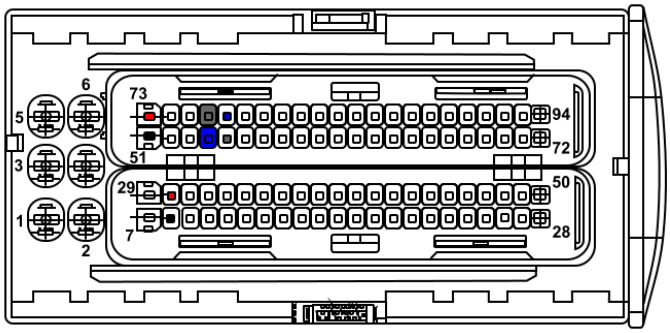
- Fill "Dashboard channels" table with the following values:

    - 0000
    - 0001
    - 0005
    - 0006
    - 0004
    - 0009
    - 000B
    - 0026
    - 001E
    - 0002
    - 0007
    - 0017



2
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

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 “MARELLI”
- ECU Model "SRA_EDL8 "

4 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