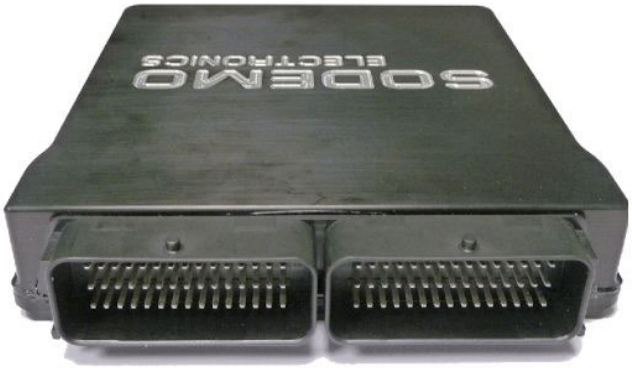
AiM InfoTech

SODEMO – EV14 and EV16

Release 1.00



ECU

1 Supported models

This user guide explains how to connect Sodemo ECUs to AiM devices. Supported models are:

- SODEMO EV14
- SODEMO EV16

2 Wiring connection

These models are equipped with a specific manufacturer protocol based on CAN, accessible through the ECU connectors shown here below: EV14 on the left and EV16 on the right with the respective connection tables.

EV14 Connection table

Pin connector	Function	AiM Cable	AiM Cable colour
86	CAN Low	CAN -	Blue
87	CAN High	CAN +	White

EV16 Connection table

18 Pin connector	Function	AiM Cable	AiM Cable color
A1	CAN Low	CAN -	Blue
A2	CAN High	CAN +	White

3
Race Studio configuration

Before connecting AiM device to the ECU, set all functions up using **AiM RaceStudio 3 software only**. The parameters to set in the device configuration are:

- ECU manufacturer: **SODEMO**
- ECU Model: **EV 14**(RaceStudio 3 only)

4
"SODEMO – EV 14" protocol

Channels received by AiM devices configured with "SODEMO – EV 14" protocol are:

CHANNEL NAME	FUNCTION
RPM	Engine RPM
Gear	Engaged gear
Speed	Vehicle speed
WaterTemp	Water temperature
OilTemp	Oil temperature
MAP	Manifold air pressure
CarterPress	Carter pressure
AtmPress	Atmospheric pressure
FuelPress	Fuel pressure
OilPress	Oil pressure
CAM1Ang	Camshaft 1 position angle
CAM3Ang	Camshaft 3 position angle
CAM4Ang	Camshaft 4 position angle
SetCAM12	Camshaft 1-2 set point
Advance	Advance angle
TPS1	Throttle position sensor

TPS2	Throttle position sensor
PPS1	Pedal position sensor 1
RCOCAM1	PWM Cam1
RCOCAM2	PWM Cam2
RCOCAM3	PWM Cam3
RCOCAM4	PWM Cam4
PPS2	Pedal position sensor 2
Inj2Time	Injection 2 time
Inj1Time	Injection 1 time
BattVolt	Battery voltage
VPotBV	Potentiometer voltage
FuelRem	Fuel level – Remaining fuel
FuelBurned	Burned fuel
ErrFlag	Error flag
ErrFlag2	Error flag 2
Rich	Richness percentual
AirTemp	Air temperature
CAM2Ang	Camshaft 4 position angle
FlagSw	Flag switch
SetCAM34	Camshaft 3-4 set point
PhaseFlag	Flag phase
TotKm	Total distance (km)
CorrFlag	Flag correction
Libre	Free channel

Please note: not all data channels outlined in the ECU template are validated for each manufacture's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.