

AiM Infotech

EFI Euro 1

Release 1.03



This tutorial explains how to connect AiM devices to EFI Euro 1 ECU.

1

Recommended check

Before connecting EFI Euro 1 ECU to AiM devices two checks are strongly recommended.

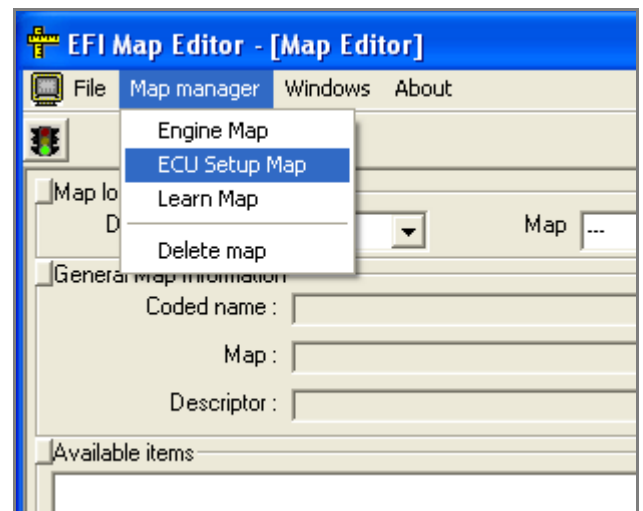
- **Hardware check:** all AiM devices feature a 120 Ohm resistor integrated in the logger (MXL Strada/Pista/Pro05) or mounted on the device harness (SoloDL, EVO4, ECU Bridge). Your network should be equipped with another 120 Ohm resistor. In case you find a third resistor, please remove it.
- **Firmware check:** according to their firmware version, EFI Euro 1 ECU may be compatible or not with AiM devices. In detail:
 - ECU with firmware version 200-299: not compatible
 - ECU with firmware version 300-379: firmware upgrading needed – contact EFI dealer
 - ECU with firmware version 380-399: compatible
 - ECU with firmware version 400 onwards: software setup needed – see below

Please note: always ensure that your AiM device is upgraded to the latest available firmware version checking www.aim-sportline.com download area, firmware section.

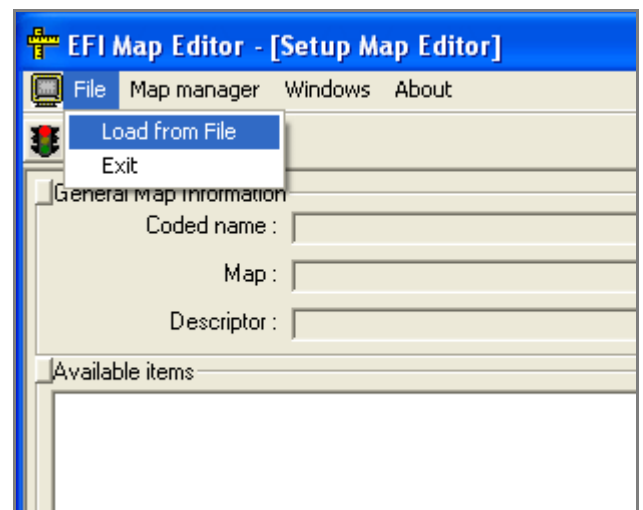
1.1 Software setup

To setup your EFI Euro 1 ECU with firmware versions from 400 onwards follow this procedure.

- Run "ECT Mode" and load Euro 1 ECU
- click "Map Editor"
- select "Map Manager -> ECU Setup Map"

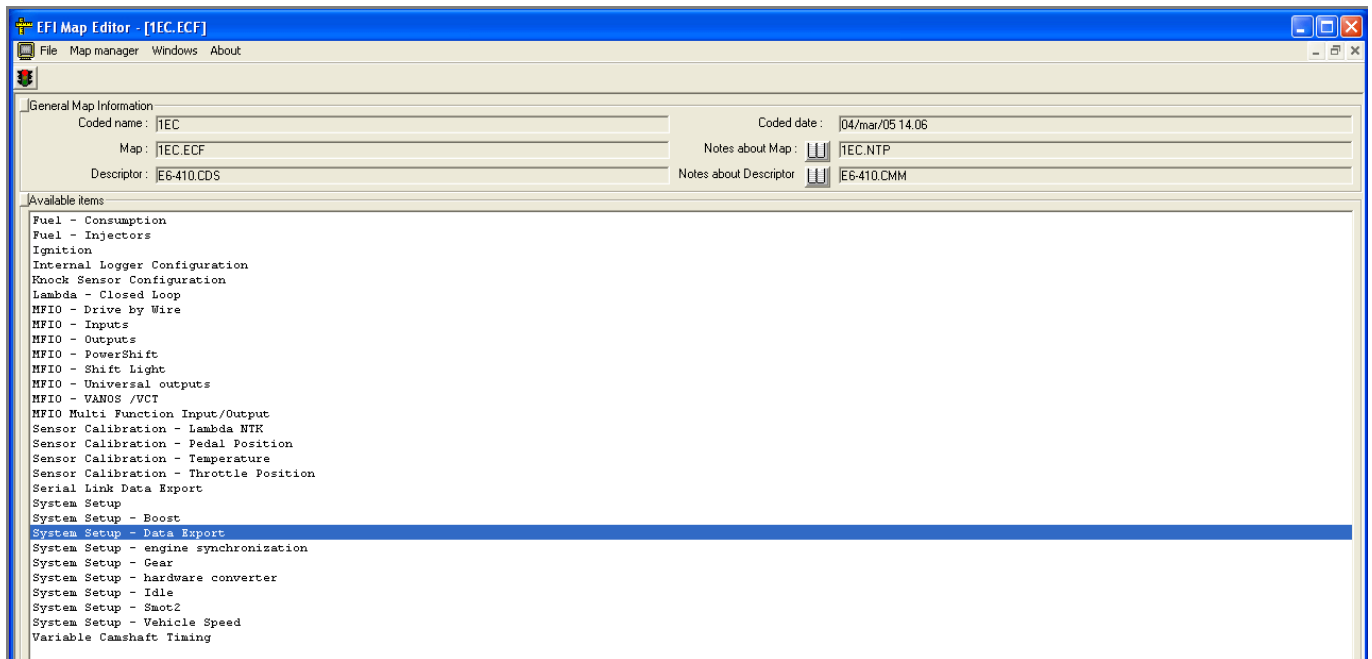


- click "File" and select "Load from File"



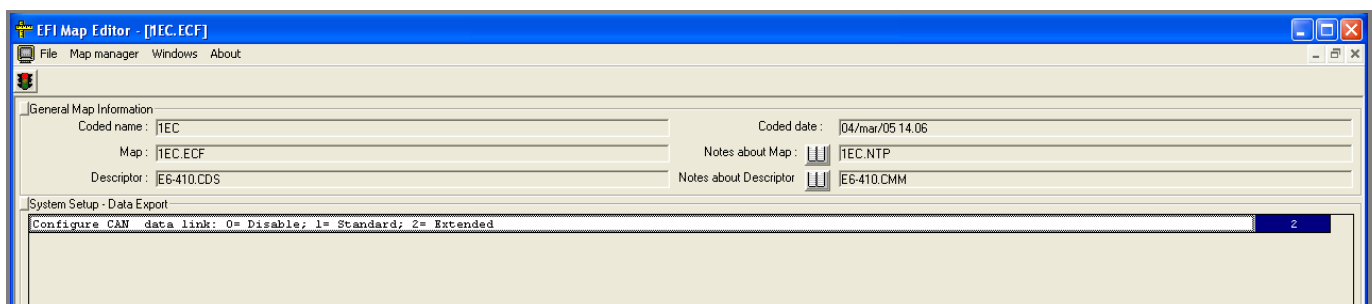


- select “.ECF” file
- select “.CDS” file
- the map is loaded
- the page shows a long list of options: select “System Setup – Data Export”



“Data export” table is loaded. Available options are:

- 0 = disable
- 1 = standard
- 2 = extended – type this one



2

Wiring connection

To connect EFI Euro 1 ECU with AiM devices use the 35 pins AMP male connector located frontally on it. Here below the connection table.

| AMP connector pin | Pin function | AiM cable |
|--------------------------|---------------------|------------------|
| 22 | CAN High | CAN+ |
| 6 | CAN Low | CAN- |

3

AiM device configuration

Before connecting the ECU connected to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "EFI_EUROPE"
- ECU Model "Euro_1";

4

Available channels

Channels received by AiM loggers connected to "EFI" "Euro_1" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|-----------|---------------------|---|
| ECU_1 | EFI_RPM | RPM |
| ECU_2 | EFI_TPS | Throttle position |
| ECU_3 | EFI_DFARF | Throttle position derivative |
| ECU_4 | EFI_MAP | Manifold air pressure |
| ECU_5 | EFI_BARO | Barometric pressure |
| ECU_6 | EFI_ARR_TRANS | Fuel enrichment multiplier on throttle position transient |
| ECU_7 | EFI_SPEED | Vehicle speed |
| ECU_8 | EFI_VBATT | Battery supply |
| ECU_13 | EFI_TEROGBASE | Injection table – injection time |
| ECU_14 | EFI_TEROG | Real injection time |
| ECU_15 | EFI_TEROG12 | Injection time of cylinder 1-2 |
| ECU_16 | EFI_TEROG34 | injection time of cylinder 3-4 |
| ECU_17 | EFI_SABASE | Ignition table - spark advance |
| ECU_18 | EFI_SA | Real spark advance |
| ECU_19 | EFI_SA1 | Spark advance 1 |
| ECU_20 | EFI_SA2 | Spark advance 2 |
| ECU_21 | EFI_NTK1 | Lambda value 1 |
| ECU_22 | EFI_FCCLAT | Auto mapping flag |
| ECU_23 | EFI_KFUELLEARN | Fuel correction coefficient for auto mapping |
| ECU_24 | EFI_CLC1 | Clutch 1 |
| ECU_31 | EFI_TH2O | Engine coolant temperature |
| ECU_32 | EFI_TAIR | Intake air temperature |