

AiM Infotech

MBE 998 ECU

Release 1.01





InfoTech



This tutorial explains how to connect MBE 998 ECUs to AiM devices.

## 1 Software setup

MBE 998 ECUs come with EasyMap software. For a correct communication with AiM devices set it up as follows:

- Connect the ECU to your PC and power it.
- Run Easy Map and follow this path:
  - Data ->CAN Datastream -> Setup if you have EasyMap 5.5 release
  - System -> Can Datastream -> Setup if you have EasyMap 6 release

Here below you see images of EasyMap 5.5 – on the left – and EasyMap 6 – on the right.

🇱 Easimap 5.5.R09 - Te	ellyStandard [telly-pge] - Page 2/3	Easimap 6.R29 - 992-Lambda-2.pge - Page 2 / 2
File ChipFile Page Panel	Data Mapping Logging Tools Options Window	File Page System Mapping Logging Tools Options Help
2 🖉 🕈 🖿	Get Data Ctrl+U 📃 💷 🥢 🍘	Maps and Settings Ctrl+U
Engine Speed	Device Info	Iransfer All Data
	Set Default Data	Engine Spe Can Datastream

• This way the software reads information coming from the ECU and opens a new window to configure the CAN communication;



• Parameters must be configured in the right sequence and with the right sequence; complete the table with the information suggested here below; MBE 998 ECU configuration requires 998 Traction control scheme too:

								- O ×	
Send Send/Qiose Reload (mont Options Window Egt. Uppoint) DISARED									
	Setup								
Configure th	Configure the CAN Data Logging Interface								
Message lder/fifer 340 V									
Number of messages Send Messages 1to 4 (trist 4 rows) 👱 Maximum 8									
Message	Identifier	Data 1	Data 2	Data 3	Data 4	Data 5	Data 6	Data 7	
1	1	Wheel Speed Front Left (LSB)	Wheel Speed Front Left (MSB)	Wheel Speed Front Right (LSB)	Wheel Speed Front Right (MSB)	Wheel Speed Rear Left (LSB)	Wheel Speed Rear Left (MSB)	Target Gear Position	
2	2	Wheel Speed Rear Right (LSB)	Wheel Speed Rear Right (MSB)	Conditioned Slip (MSB)	Conditioned Slip (LSB)	Ground Speed (MSB)	Ground Speed (MSB)	Undefined 🔽	
3	3	Front Axle Speed (LSB)	Front Axle Speed (MSB)	Fuel Pressure (LSB)	Fuel Pressure (MSB)	Oil Temperature (LSB)	Oil Temperature (MSB)	Undefined 🔽	
4	4	Oil Pressure (LSB)	Oil Pressure (MSB)	Gear Pressure Input (pin 15) (LSB) 👱	Gear Pressure Input (pin 15) (MSB) 👱	Gear Switch Input (pin 16) (LSB) 🛛 👱	Gear Switch Input (pin 16) (MSB)	Undefined 🔽	
5	5	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined <u>·</u>	Undefined 🔽	
6	6	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 🔽	
7	7	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 🔽	
8	8	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 👱	Undefined 🔽	
<	< <u>&gt;</u>								

**Please note**: data logging configuration with EasiMap software is intended for expert users only. The software can of course be changed by MBE. Refer to www.mbesystems.com for further information.

- once all parameters configured press "Send" and choose "ECU Device" if requested; the configuration is stored in ECU memory
- close configuration window and quit the program
- before connecting MBE ECU to AiM device enable "Broadcast Mode" ensuring a nominally zero voltage (or open circuit) on fuel trim and ignition trim inputs.

## 2 Wiring connection

MBE 998 ECU features a bus communication protocol based on CAN on J2 36 pins front connector. Here below is connection table.

J2 36 Pins connector pin	Pin function	AiM cable
6	CAN High	CAN+
7	CAN Low	CAN-

InfoTech



## 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 "MBE"
- ECU Model "998CAN"

## 4 Available channels

Channels received by AiM devices connected to "MBE" "998CAN" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	MBE_FRONT_LEFT	Front left wheel speed
ECU_2	MBE_FRONT_RIGHT	Front right wheel speed
ECU_3	MBE_REAR_LEFT	Rear left wheel speed
ECU_4	MBE_REAR_RIGHT	Rear right wheel speed
ECU_5	MBE_SLIP	Slip percentage
ECU_6	MBE_GROUND_SPD	Ground speed
ECU_7	MBE_FRONT_AXLE	Front axle speed
ECU_8	MBE_FUEL_PRESS	Fuel pressure
ECU_9	MBE_OIL_TEMP	Oil temperature
ECU_10	MBE_OIL_PRESS	Oil pressure
ECU_11	MBE_GEAR_PRESS	Gearbox pressure
ECU_12	MBE_GEAR_SWITCH	Gear switch
ECU_13	MBE_TARG_GEAR	Gear target