



M248

DESCRIPTION

This control unit can manage the ignition and injection of any 4 strokes engine system, up to 8 cylinders (lost spark). Heart of the ECU is the MPC5534 Power PC from Freescale, and with the 80Mhz system clock guarantee high calculation performances.

Full parameter customizations and the automapping feature with the integrated controller lambda, are the keys for maximum flexibility, and permit to adapt this ECU to many different engine configurations:

- 1 to 8 cylinders (lost spark)
- 1 to 2 injectors per cylinder
- aspirated or turbo charged
- different free wheels and signal systems

On-board CAN line, provide a simple and standard way to connect the ECU to a data logger system or a common PC with an USB-CAN adapter (M196)

A 3D Windows application, purposely developed for this unit, is designed for customize and monitor all the system parameters and the external sensors data.

The BOX includes a black anodized aluminum, with 2 fastening points,



TECHNICAL DATA

Mechanical data

Dimensions (no connector)	134 x 106 x 35
BOX	Anodized Aluminum
Main Connector	Molex 5022250801
Weight	400g

Inputs

Analogic	18
Digital	8
Lambda Sensor	1 UEGO—1 NBEGO
Pick-up inductive / hall	2+2
Wheel Speed	4
Drive by wire (main+aux)	1
Exhaust valve control (main+aux)	1

Outputs

Injector Drivers	8
Coil Drivers	4
H Bridge	2
Water Pump	1
Fuel Pump	1
Fan	1
Tacho	1
Stepper Motor	1
Dedicated PWM	2
Integrated controller lambda	1 channel

Communication

CAN Line (1Mbit/s)	1
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Electrical Dat

Power Supply	8 - 18Vdc
Temperature Range	-20 / +85°C

Software

Windows application MON248, with 3D maps viewer