



Euro 4

Euro-4 is the latest generation engine management system from EFI Technology. It is one of the smallest and yet one of the most powerful ECU's developed by EFI Technology for use on engines with up to 8 cylinders. It is suitable for use on both road car and racing engines. It features two independent knock detection and knock control channels. A NTK UEGO wide band lambda sensor can be connected directly to the ECU for use with its unique self mapping of the fuel injection and closed loop fuel control. A second sensor can be connected via EFI's external module, allowing bank-to-bank control on V engines. Euro-4 has a built-in H-bridge driver for use with drive-by-wire throttle control. Data can be recorded by the on-board logger and data can be exchanged with external modules via 2 independent CAN lines.

System Overview

- 40 MHz PPC microprocessor
- 4 cylinders in full sequential mode
- 6 and 8 cylinders in sequential injection and wasted spark mode
- On-board data logging
- Automatic fuel control
- Closed loop lambda control
- Automatic boost control
- Variable camshaft timing
- Idle speed control
- Drive-by-Wire control
- 2 selectable engine maps

General

- Very small and flat aluminium cast housing

- 2 automotive main connectors with high pin density
- Dimensions 165 x 95 x 21 mm
- Weight 365 grams

Communication

- 2 x CAN 2.0B interfaces

Inputs

- 4 inductive speed and sync sensor inputs
- 2 Hall effect crank and cam sensor inputs
- 3 spare Hall effect / digital switch inputs
- 2 knock sensor inputs
- 1 direct NTK wide band lambda sensor input 21 universal sensor inputs
- 1 built-in barometric air pressure sensor 4 Hall effect wheel speed sensors

Outputs

- 8 on-off fuel injector drivers
- 4 inductive ignition coil drivers
- 4 logic ignition coil drivers
- 8 multipurpose switches and PWM's 1 lambda sensor heater
- 1 H-bridge drive-by-wire controller 4 sensor power supplies

Special Features

- Control strategy for direct fuel injection
- Control strategy for sequential gear change
- Traction control
- 8 Mb logger memory capacity

Conditions for Use

- Temperature range -40 - +125degrees C
- Power supply 7..16 volts