The KMS MD35 ECU is a programmable engine management system that can be used as an independent engine control unit (ECU) for virtually all types of Otto engine, or in combination with a standard engine management system. It can take over the standard injection/ignition at any desired engine speed, boost pressure or throttle valve position.

A complete self-learning air-to-fuel ratio control (lambda control) is one of the key features of the KMS MD35 ECU. The lambda control is used in combination with the KMS Uego CAN controller set. Precise ignition and air/fuel mixture control will lead to excellent driveability, performance and low fuel consumption.

Features:

- Complete engine management system up to 12 cylinders
- Dual self-learning lambda control in combination with KMS UEGO CAN controllers
- Odd firing angles
- Direct fire in combination with cam-sensor
- Inductive / Hall crank trigger
- Staged / Banked injection
- Map selector
- Engine diagnostics
- Shortcut protected outputs
- 38 channel 4Mb data logging
- Dual processor technology
- Water resistant
- Connector with gold-plated pins
- USB interface
- CAN communication (used for extra in-/outputs, KMS CAN display, etc)
- 2 engine load sensors
- 3 analog inputs (2nd lambda, gearbox position, G-force sensor, EGT, etc.)

- 3 auxiliary outputs (Shift light, water-injection, cooling fan, etc.)
- Pit lane and speed limiter (variable)
- RPM limiter
- A.L.S. (variable)
- Powershift (separate delay and cut-off time for each gear)
- Boost control (gear, speed and time-dependent)
- Launch control (variable, separate time delay possible)
- Idle control
- Speed inputs from KMS speed sensor → CAN converter 4-channel
- Traction control

The KMS MD35 ECU is supplied including main connector, communication cable, software and wiring instructions.