

Input

- Engine Speed
- 2 Pairs Throttle Position (TPS + Safety Backup)
- 2 Manifold Pressure
- 2 Mass Air Flow (PWM)
- 2 Pedal (includes Safety Backup)
- Barometric Pressure
- Engine Temperature
- Air Temperature
- Battery Voltage
- 2 Wide Band Lambda Sensors
- 2 Narrow Band Lambda Sensors
- Paddle shift up & down
- **10 Programmable Analogue input options:**
- Fuel Pressure
- Oil Pressure
- Oil Temperature
- Power shift
- Gear Position
- Pressure sensor (pneumatic gearbox control)
- EGT
- Launch
- Anti-Lag
- CAN input for G & Yaw Sensors
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- **8 Programmable PWM Input**
- 4 Cam position sensors (CPS)
- 4 Wheel Speeds
- 2 Mass Air Flow
- Pedal

Output

- Up to 8 Fuel Injector Drivers
- Up to 8 Integral Amplifier Ignition Drivers
- Up to 8 External Amplifier Ignition Drivers
- **30 Programmable output pins which consist of:**
- 16 Programmable Digital Output pins:
- 6 Programmable High Side PWM Output pins
- 8 Programmable Low Side PWM Output pins

As there are continually new functions added, you will need to download the latest version of Easimap to find out what options are available.



Control Strategies

- 2 Fly-by-wire/EGAS
- Sequential Fuel Injection & Semi Sequential fuelling up to 8 cylinders
- Sequential Ignition & batch ignition up to 8 cylinders
- Programmable Dwell Control
- Multiple Crank Trigger Wheels
- Acceleration Fuel
- Overrun fuel cut-off
- Wide Band Closed Loop Lambda (2 inputs)
- Fuel Pump Relay
- Gearshift Light
- Radiator Fan Control
- Power shift
- Full Gearbox Control
- Launch Control
- Boost Control
- Water Pump control (PWM)
- Traction Control
- Variable Cam Control up to 4 camshafts
- VTEC Control
- VANOS Control
- Anti Lag
- Starter Motor Control
- Pit Lane Speed Limiter/Rain light
- Low Oil pressure warning
- Nitrous oxide control
- CAN Data Stream
- NEW functions added all the time*

Main Maps

Fuel injection & ignition timing which have 64 speed sites & 16 load sites that are both fully programmable. They are 16bit, which give ultra fine control. Throttle angle or Manifold pressure (MAP)

Compensation Maps

Compensations are applied to injection duration and ignition timing via Engine Temperature, Intake Air Temperature, Barometric Pressure, Manifold Pressure and Battery Voltage

On-board Data Logging

On board Histograms
In built 512kB Data logger
Engine run time Hour clock

Windows Mapping

Vista/Windows7/Windows8/8.1/Windows10 mapping via USB/CAN interface (Hardware available separately)
Graphical map editing
Infinitely Adjustable Rotary encodes mapping (Requires CAN Pro mapping kit).
Closed Loop Lambda mapping.

CAN Data Interfaces

2 x MBE CAN datastream interfaces
2nd CAN Bus with configurable data stream speed to suit logging systems with different speeds.
Configurable CAN data stream for external logger or display

Software Upgrades

9A9 ECUs have upgradeable software to allow new and improved functions to be added.

Physical Data

Envelope: 193 X 175 X 35 mm
Mass: TBA
Operating: -40C to +85C (-40F to 185F)
Supply voltage: 6.5V to 23V
Case: CNC Anodised Aluminium
Mounting: Dependant on installation

Connector: Two connectors Total of 121 Pin (Connector A 81 Pins & B 40 Pins)