

MBE9A4 ECU

Engine Type: Engines up to 4 cylinders		
Fuel Injection: Sequential fuelling, engines up to 4 cylinders (high impedance injectors)	Ignition Output: 4 sequential ignition drives allowing wasted spark or up to 4 cylinders coil-on plug ignition. Built-in amplifiers for direct ignition coil drive. Special order ECU for external amps.	
Inputs <ul style="list-style-type: none"> · Engine Speed · Throttle Position (TPS) · Manifold Pressure · Barometric Pressure · Engine Temperature · Air Temperature · Battery Voltage · Lambda Sensor · Cam position (CPS) · 3 Programmable inputs · Fuel Pressure (optional) · Oil Pressure (optional) · Oil Temperature (optional) · Power shift (optional) · Gear Position (optional) · Vehicle Speed (optional) 	Outputs <ul style="list-style-type: none"> · Up to 4 Fuel Drives · Up to 4 Ignition Drives · 4 programmable outputs · Tachometer (default) · Fuel Pump Relay (default) · Rad Fan (default) · Shift light (default) · Generic Output (optional) · Various Outputs (see current software for Programmable Pin options) 	Control Strategies <ul style="list-style-type: none"> · Sequential Fuel Injection · Programmable Dwell Control · Multiple Crank Trigger Wheels · Acceleration Fuel · Overrun fuel cut-off · Closed Loop Lambda · Fuel Pump Relay · Gearshift Light · Radiator Fan Control · Power shift · Launch Control · Boost Control · Water Pump control (PWM) · Traction Control · VTEC Control · 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 & ignition timing via engine temperature, intake air temperature, barometric pressure, manifold pressure & battery voltage.	

On-board Data Logging:

On board histograms
Engine run time hour clock

Windows XP/Vista/Windows7/Windows8 Mapping:

- Windows XP/Vista/Windows7/Windows8 mapping via USB/CAN interface (hardware available separately)
 - Graphical map editing
- Live mapping via the MBE985 mapping kit (wiring adaptor may be required)
- Professional mapping via the pro-CAN mapping kit using infinitely adjustable rotary encoders.
- Closed loop lambda mapping via wideband lambda equipment 5V input

CAN Data Interface:

- MBE CAN data to interface with 995 display & 998 gearbox controller
- Configurable CAN data stream for external logger or display

Software Upgrades:

- 9A4 ECUs have upgradable software to allow new & improved functions to be added

Physical Data:

ECU - General

- Envelope: 145 X 90 X 32 mm (5.7 X 3.5 X 1.3 in)
 - Mass: 190g (0.4 lb)
- Operating: -40C to +85C (-40F to 185F)
 - Supply voltage: 6.5V to 23V

Case

Black glass-filled nylon, extremely lightweight

Mounting

Twin lugs on each side of ecu

Connector

Sealed 36 pin connector, integral lock