

MBE9A9

Engine Type: Engines up to 8 cylinders	
Inputs <ul style="list-style-type: none"> · Engine Speed · 2 Pairs Throttle Position (TPS + Safety Backup) · 2 Manifold Pressure · 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 · 8 Programmable PWM Input · 4 Cam position sensors (CPS) · 4 Wheel Speeds · Pedal 	Outputs <ul style="list-style-type: none"> · 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 <ul style="list-style-type: none"> · 2 Fly-by-wire/EGAS · Sequential Fuel Injection & Semi Sequential fuelling up to 8 cylinders · Sequential Ignition & batch ignition up to 8 · 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 · Powershift · Full Gearbox Control 	<ul style="list-style-type: none"> · Launch Control · Boost Control · Water Pump control (PWM) · Traction Control · Variable Cam Control up to 4 camshafts · VANOS Control · Anti Lag · Starter Motor Control · Pit Lane Speed Limiter · Low Oil pressure warning · Nitrous oxide control · CAN Data Stream

<p>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)</p>	<p>Compensation Maps: Compensations are applied to injection duration & ignition timing via engine temperature, intake air temperature, barometric pressure, manifold pressure & battery voltage.</p>
<p>On-board Data Logging: On board histograms Engine run time hour clock</p>	
<p>Vista/Windows7 Mapping:</p> <ul style="list-style-type: none"> · Vista/Windows7 mapping via USB/CAN interface (hardware available separately) <ul style="list-style-type: none"> · 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 	
<p>CAN Data Interface:</p> <ul style="list-style-type: none"> · MBE CAN data to interface with 995 display · Configurable CAN data stream for external logger 	<p>Software Upgrades: 9A9 ECUs have upgradable software to allow new & improved functions to be added</p>
<p>Physical Data: ECU - General</p> <ul style="list-style-type: none"> · Envelope: 193 X 175 X 35 mm · Mass: 923g · Operating: -40C to +85C (-40F to 185F) · Supply voltage: 6.5V to 23V <p>Case Black Plastic Moulded & CNC Aluminium</p> <p>Mounting Four lugs, two on each side of ECU</p> <p>Connector Two connectors Total of 121 Pin (Connector A 81 Pins & B 40 Pins)</p>	