MBE9A4i ECU

Engine Type:
Engines up to 4 cylinders

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	Outputs	Control Strategies
· Engine Speed	· Up to 4 Ignition Drives	· Programmable Dwell Control
· Throttle Position (TPS)	· 4 programmable outputs	
		· Multiple Crank Trigger Wheels
· Manifold Pressure	· Tachometer programmable (default)	
		· Overrun fuel cut-off
· Barometric Pressure	· Fuel Pump Relay (default)	· Fuel Pump Relay
· Engine Temperature	· Rad Fan (default)	· Gearshift Light
· Air Temperature	· Shift light (default)	· Radiator Fan Control
· Battery Voltage	· Generic Output (optional)	· Power shift
· Cam position (CPS)	· Various Outputs (see current software for Programmable Pin options)	
		· Launch Control
· 3 Programmable inputs		· Boost Control
· Oil Pressure (optional)		· Water Pump control (PWM)
· Oil Temperature (optional)		· Traction Control
· Power shift (optional)		· VTEC Control
· Gear Position (optional)		· Low Oil pressure warning
· Vehicle Speed (optional)		· Nitrous oxide control
		· CAN Data Stream
		· NEW functions added all the time*

Main Maps :	Compensation Maps :
	Compensations are applied to ignition timing via engine temperature, intake air temperature, barometric pressure, manifold pressure & battery voltage.
Ignition timing which have 64 speed sites & 16 load sites that are both fully programmable. The are 16bit, which give ultra fine control. Throttle angle or Manifold pressure (MAP)	

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.

CAN Data Interface:	Software Upgrades:
	· 9A4i ECUs have upgradable software to allow new & improved functions to be added
· MBE CAN data to interface with 995 display & 998 gearbox controller	
· Configurable CAN data stream for external logger or display	

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
Red glass-filled nylon, extremely lightweight
Mounting
Twin lugs on each side of ecu
Connector
Sealed 36 pin connector, integral lock