

Microtech LT8S

Specification sheet:-

Kit Contents:-

ECU

Flying Lead Wiring Loom (labeled)

Vacuum Hose

Fuel Pump Relay

Fuse Holder

Technical Manual / Booklet

General:-

Weight 500gm

Extruded Aluminum case

1 Year Warranty

32 Bit Motorola Processor

Surface Mount technology board

Supports up to 8cyl and 2 rotor engines

Max readable RPM 15950

Max readable boost with standard map sensor :- 25psi
(30psi & 45psi versions avail as an option)

Fuel Delivery:-

4 Injector Drivers capable of 4 amp peak hold.

True sequential operation on 4 cylinder and rotary applications

Run up to 4 high impedance injectors per driver

Tuneable in MAP or TPS mode or combination of both.

Main Matrix table has 16x16 load sites (32x32 software update will be available mid 2006)

RPM tuning range currently every 500rpm to 9000rpm

(12000rpm software option available)

(upgradeable to user definable position and number of sites. Software update will be available mid 2006)

Overall Mixture trim $\pm 99\%$

Fuel Delivery Cont:-

Auxiliary Input correction $\pm 99\%$

Coolant temp correction

Air temp correction

Accelerator pump amount, sensitivity and Time compensation

Cranking enrichment correction

After start enrichment correction

Cold Start accelerator pump correction

Hard cut RPM limiter

Soft cut RPM Limiter

Over boost Limiter

Sequential, Group fire and Staged/Group fire modes

Ignition:-

4 Ignition drivers

Ignition setup preconfigured for engine type.

Configurable for 1-8 cyl engines using an external igniter

Configurable for twin distributors and 2 rotor engines

16 Ignition RPM sites (upgradeable to user definable number. Software update will be available mid 2006)

16 Map corrections (upgradeable to user definable number. Software upgrade will be available mid 2006)

16 water temp correction points

16 air temp correction points

Ignition advance/retard on accelerator pump

Ignition advance/retard on aux input trigger

Ignition Trim overall $\pm 45^\circ$

Ignition TDC reference adjustment on some applications

Ignition timing split adjustable on rotary applications

Accuracy to .25 degree

Aux inputs and outputs:-

Standard features include One 12V Aux input

One -ve switched Aux output triggered by RPM, Map, water temp

Aux Input cont:-

One PWM output to run idle stepper motor control

Aux input can be configured to run Anti-lag, Mixture trim, Timing trim etc.

Diagnostics:-

Red LED indicated Fault code triggered

Data Page indicates where fault lies

Operational errors:- Over boost, RPM Limit, RPM Cut, MAX Duty, Water temp, Voltage, Shift Light

Self Test Mode runs all injectors and ignition and cycles aux outputs

Amber LED gives Visual of ignition input signal

Green LED gives visual of power on.

Programming/ Tuning:-

Using Laptop adapter and software

Using Handset or DASH unit

Sensors:-

Configured to suit application when ordered.

Data logging and map storage:-

On board "ECU-Log" Holds 5 minutes of memory . User definable switching on and off point.

Data Log to Memory (Laptop) 100 samples per second

Viewed Data Log displays average readings 10 times per second

Data log viewable in text or Graph

Playback data log

Print data log

Laptop logging standard. ECU logging optional & must be requested when ordering

Save data log to disc

4 Maps saveable to laptop adapter or handset

Upgradeable in the future to "save maps to disc"