

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 12cyl and 4 rotor engines
Max readable RPM 15950
Max readable boost with standard map sensor :- 25psi
(40psi 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
Tunable in MAP or TPS mode or combination of both.
Main Matrix table has 16x16 load sites (upgradeable to 32x32)
RPM tuning range currently every 500rpm to 9000rpm
(upgradeable to user definable position and number of sites)
Overall Mixture trim +-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

Inbuilt igniter on LTX8s units

Ignition setup preconfigured for engine type.

Configurable for 1-4 cylinder direct fire or 1-8cyl wasted spark

Configurable for twin distributors and up to 4 rotor engines

16 Ignition RPM sites (upgradeable to user definable number)

16 Map corrections (upgradeable to user definable number)

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 $\pm 45\text{deg}$

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
Save data log to disc

4 Maps savable to laptop adapter or handset
Upgradeable in the future to “save maps to disc”