

## **Microtech LT12S 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:-**

6 Injector Drivers capable of 4 amp peak hold.  
True sequential operation on 6 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 LTX12s units

Ignition setup preconfigured for engine type.

Configurable for 1-6 cylinder direct fire or 1-12cyl 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, and water temp

### **Aux Input cont:-**

Two PWM outputs:-. To run idle stepper motor control and extra injector driver or boost 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.

Wideband O2 sensor option available when ordering.

40psi map sensor option available when ordering.

### **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 functions

Upgradeable to “save maps to disc”