*LongWin Micro-Controller Series*

## Mini 80C51 Micro-Controller Module

*High Performance, Maximum Reliability, Competitive Cost*

# LW-MCAT-8951



**LW-MC01-P938** *is only 0.9 inch by 3.9 Inch Mini Micro-Controller System Board featured with 18Mhz speed and 8KByte on-board flash memory.*

*The mini micro-controller system board provides up to 7 channel 10-bit A/D, 13-Bit GPIO, and standard RS232/RS485 serial port.*

## Features

- **Up To 18Mhz 80C51 MPU**
- **8K On-Board Flash Memory**
- **512-Byte On-Board EEPROM**
- **768-Byte On-Board RAM**

- **RS232 / RS485 (Option) Serial Ports**
- **Up To 7 Channel 10-Bit A/D**
- **Up To 13-Bit GPIO**
- **RTC and Watchdog Timer**

## Specification

| | |
|---|---|
| **Bus Type** | 0.1 Inch Pitch DIP and SIP |
| **MPU** | 20Khz - 18Mhz 80C51 MPU<br>111ns to 222ns Instruction Cycle |
| **Memory** | 8KB Flash Memory<br>512-Byte EEPROM<br>768-Byte RAM |
| **A/D** | Up To 7 10-Bit Channel |
| **GPIO** | Up To 13-Bit GPIO<br>20mA Drive Capability |
| **Timer** | Two 16-bit Counter / Timer<br>One 23-bit System Timer<br>Real-Time Clock (RTC)<br>Watchdog Timer |

| | |
|---|---|
| **UART** | Enhanced UART<br>Fractional Baud Rate Generator<br>Break Detect<br>Framing Error Detection<br>Automatic Address Detection |
| **Power** | +5V +/-10%<br>(Or +3.3V +/-10%)<br>Less Than 10mA Working Current<br>Less Than 100uA Idle Mode<br>Less Than 10uA Power-Down Mode |
| **Environmental** | -40ºC - +85ºC Working Temperature |
| **Mechanical** | 0.59 Inch x 3.9 Inch<br>0.59 Inch x 2.5 Inch (Without Bit-Switch, Buzzer and Mounting Hole) |

*For More Information, please call (800) 970-6805 or eMail to : sales@LWComputer.com*

| *Ordering Information* | | |
|---|---|---|
| | **LW-MC01-P938-S** | *80C51 MPU with RC Oscillator* |
| | **LW-MC01-P938-C** | *80C51 MPU with On-Board 18Mhz Crystal* |