

## ATMEL Based Microcontroller Boards

The 8051 micro-controller is one of the most popular micro-controller in use today with applications ranging from industrial, medical, home automation to automotive. MINI-MAX/51 and PRO-MAX/51 series boards are powerful, yet easy-to-use and low-cost microcomputer systems based on the latest generation of flash-based 8051 microcontrollers from ATMEL.

All BiPOM boards are fully assembled and ready to use out of the box. These boards have flash memory that can store thousands of lines of BASIC, C or 8051 Assembly language programs. Program execution speeds reach several million instructions per second. Programs are downloaded into MINI-MAX/51 boards with a personal computer through the RS232 serial (COM) port. Thanks to ATMEL high speed download and flash capabilities, downloads typically take only few seconds.

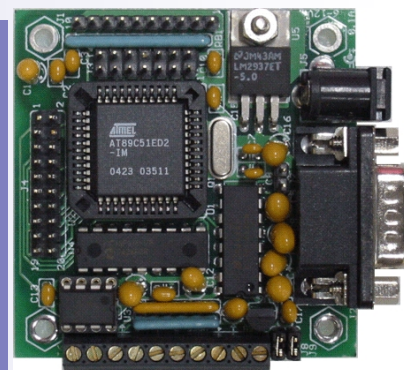
MINI-MAX/51 and PRO-MAX/51 boards are fully backed by warranty, technical support and application assistance from BiPOM Electronics. Wide range of peripheral boards and accessories are available.

## MINI-MAX/51-C2

### 8051 Compatible Microcontroller System with Analog Inputs

#### MINI-MAX/51-C2 Board Features:

- ATMEL AT89C51ED2 single-chip Flash micro-controller
- 64 Kilobytes of In-System programmable Flash Memory
- 2K internal RAM, 2K EEPROM
- 9-sources of 4-level Interrupts.
- Programmable Counter Array with high speed output, compare/capture, pulse width modulator.
- Three 16 bit Timer/Counters.
- Programmable Watchdog Timer, Brownout Detector
- 32 general purpose I/O pins
- 512-byte ATMEL 2-wire Serial EEPROM ( optional 128-Kilobyte EEPROM )
- RS232 Serial Port
- 5-channel, 10-bit Analog/Digital Converter (ADC) with 4.096V internal or an external voltage reference source
- Keypad and LCD connector ( with programmable contrast for LCD )
- Technical Manual and Circuit schematics are provided.
- 6 Volts DC Adapter, serial cable and serial downloader included.



## MINI-MAX/51-E

### ATMEL AT89C51ED2 Based Microcontroller System with Ethernet.

#### MINI-MAX/51-E Board Features:

- ATMEL AT89C51ED2 micro-controller
- 64K Flash program memory, 2K internal RAM, 2K EEPROM
- 32 Digital Input/Output Lines
- LCD, keypad and expansion connectors
- CS8900 Built in Ethernet controller
- All Ethernet components (transformer, RJ-45 jack) for use on standard 10 Base-T Ethernet network
- Full, open source TCP/IP stack with all layers: CS8900/ARP/IP/ICMP/TCP
- Web Server and Telnet Server with full source code
- Fast IPX layer for use on a local network with a Visual C++ example
- User-programmable MAC and IP address
- In-system programming/debugging
- Unregulated 6-12 Volts DC operation.
- 512-byte ATMEL 2-wire serial EEPROM ( Optional 128-Kbyte EEPROM )
- RS232 Serial Port
- Technical Manual and Circuit schematics are provided.
- 6 Volts DC Adapter, serial cable and serial downloader included.

