

BiPOM Electronics, Inc.

ATMEL Based Single Board Computers.



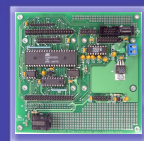
MINI-MAX/51-C2



MINI-MAX/51-E



MINI-MAX/51-D



PROMAX/51-A



MicroTRAK

BiPOM Electronics is pleased to offer the largest selection of off-the-shelf Single Board Computers (SBC's) based on ATMEL Flash family of micro-controllers:

- **MINI-MAX/51-C2:** Powerful SBC based on AT89C51RX2 family of microcontrollers. Features LCD, Keypad, RS232 and Expansion Ports. On-board 5 volt regulator.
- **MINI-MAX/51-D:** Low-cost SBC based on AT89C51ED2. Features LCD, Keypad, RS232 and Expansion Ports.
- **MINI-MAX/51-E:** Ethernet-based, web-enabled SBC based on AT89C51ED2.
- **PRO-MAX/51:** Highly-configurable, powerful SBC based on AT89C51RX2 family. PRO-MAX/51 also accepts the full range of other ATMEL 8051 architecture micro-controllers with 40-DIP package.
- **MULTI-IO:** SBC based on AT89C51ED2. 80 logic, open-collector or relay contact outputs, 40 Opto-coupled or logic inputs.

All our boards feature a common stackable expansion connector that allows adding a variety of low-cost peripheral boards such as analog inputs, analog outputs, Multimedia Card (MMC), Real-Time Clock, Stepper Motor Controller, Relay boards, Training Boards, 7-Segment LED displays and many others.

All our boards take advantage of ATMEL's fast Flash program memory to perform In-System Downloading and In-System Debugging through the RS232 serial port.

Development tools include BASCOM51 BASIC Compiler, Micro C Compiler, 8051 Assembler, Micro-IDE, ATMEL AT89C51RX2 Debugger, ATMEL Simulator.

Custom Projects that were successfully completed by BiPOM Electronics using ATMEL Flash Micro-controllers:

- **Gas Detector:** Monitors, logs and displays presence of gases such as oxygen, hydrogen-sulfide, carbon dioxide. Based on AT89C51RD2.
- **Solenoid Tester:** Performs various tests such as ohm measurement, pull-in/drop-out and Mega ohm leakage on solenoids that are used in sub-sea oilfields. Based on AT89C51RD2.
- **Organic LED (OLED) Display Evaluation Board:** A miniature controller board that stores graphics images in data flash memory and drives an OLED graphical display. Based on AT89C51RD2.
- **16-channel programmable power supply:** An intelligent, variable power supply that controls loads up to 7 Amperes on each channel. Monitors fault conditions and shuts down channels accordingly. With battery charge monitoring, VFD display indicator and SMBUS support. Based on AT89C51RD2.
- **Torque Controller:** Precisely controls the makeup and/or breakout torque level of down-hole pipe joints at oil rigs. Logs events to a Multimedia Card (MMC). Based on the AT89C51RD2.