MINI-MAX/51-E

Internet-ready 8051 Microcontroller board with 10 Mbit Ethernet

The 8051 micro-controller, first Introduced by Intel, is the most popular microcontroller in use today with applications ranging from industrial, medical, home automation to automotive.

MINI-MAX/51-E is a powerful, yet easy-to-use microcomputer system based on the latest generation of flash-based 8051 micro-controllers from ATMEL.

MINI-MAX/51-E is fully assembled and ready to use out of the box. MINI-MAX/51-E has 64K of flash memory that can store thousands of lines of BASIC, C or 8051 Assembly language programs. Program execution speeds reach over 1 million instructions per second.

Built-in ethernet opens the doors for creation of powerful web-based applications. At a fraction of the cost, size and power consumption, MINI-MAX/51-E replaces PC's for a wide range of projects that require internet-connectivity.

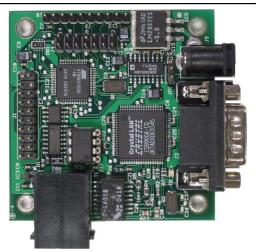
Programs are downloaded into the MINI-MAX/51 with a personal computer through the RS232 serial (COM) port. Downloads typically take only few seconds. MINI-MAX/51-E is fully backed by warranty, technical support and application assistance from BiPOM Electronics. Wide range of peripheral boards and accessories are available.

- ATMEL AT89C51ED2 Microcontroller,64K Flash, 2K RAM, 2K EEPROM
- CS8900 built-in Ethernet controller
- MINI-MAX/51-E Board inludes all the Ethernet components (transformer,RJ-45 jack, etc.) and it can be used on any 10-Mbit twisted-pair Ethernet network
- Full open source TCP/IP stack. It includes all layers: CS8900/ARP/IP/ICMP/TCP
- IPX layer. Users can use this layer on a local network. Also, a Visual C++ example is provided on how to use IPX protocol
- MINI-MAX/51-E Board is compatible with MINI-MAX/51-C2. Users can replace MINI-MAX/51-C2 with MINI-MAX/51-E, without making any changes to other connected equipment.
- Many project examples with full source code, including web server, IPX server, telnet server.

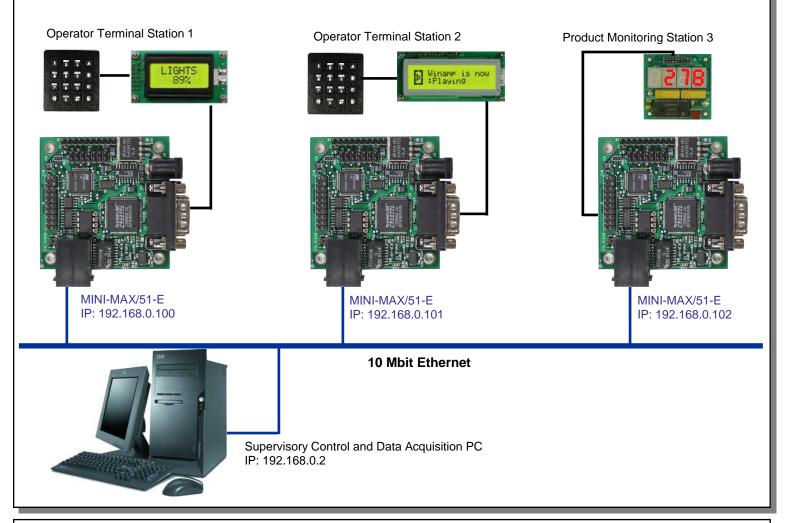
Peripheral Boards

DIO-1 I/O Expander Board TB-1 Training Board LED-1 LED Display Board PROTO-1 Prototyping Board RTC-1 Real-Time Clock Board MMC/RTC-1 Flash Multimedia Card Board DAQ-2543 12-bit Analog input board DAC-1 8 Bit analog output board TERMINAL-1 Terminal Block Board LCD242 Liquid Crystal Display VFD202 Vacuum Fluorescent Display KP1-4X4 and KP1-3X4 Matrix Keypads X10-1 X10 Interface Module MOTOR-1 Unipolar stepper motor driver RELAY-1 Relay board RELAY-4REED Reed relay board





10 MBit ETHERNET NETWORKING WITH MINI-MAX/51-E



Connecting MINI-MAX/51-E to wireless networks

MINI-MAX/51-E is a low-cost yet powerful Ethernet-enabled microcontroller system for remote monitoring, data acquisition and control over the Internet, Local Area Networks and special networks.

MINI-MAX/51-E has full support for TCP/IP and IPX protocols. It can operate as part of a 10 Mbit wired Ethernet as well as a 802.11 Wireless network.

Many wireless access points support wireless client mode of operation that allows the access point to operate as if it was a wireless PC card. After the access point is configured as a wireless client and the Ethernet port on the MINI-MAX/51-E connected the wireless access point, MINI-MAX/1-E exists on the wireless network as if the MINI-MAX/51-E was a full-blown computer.

