

MIB600

ETHERNET INTERFACE BOARD

- Base Station/Ethernet Gateway for Wireless Sensor Networks
- Mote Network Testbed
- Remote In-System Programming for IRIS/MICAz/MICA2 Processor/Radio Boards
- Full TCP/IP Protocol
- Power Over Ethernet (POE) Ready

Applications

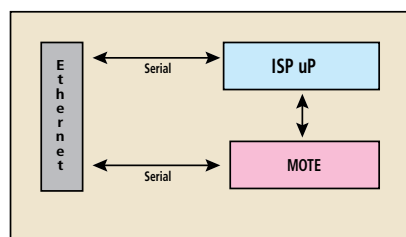
- Ethernet Network Interface
- Testbed Deployments
- In-System Programming
- Network Connectivity via TCP/IP



MIB600

The MIB600 provides Ethernet (10/100 Base-T) connectivity to the IRIS/MICAz/MICA2 family of motes for communication and in-system programming. The MIB600 allows remote access to sensor network data via TCP/IP. The MIB600 serial server connects directly to a 10 Base-T LAN like any other network device. The MIB600 can bridge "wired" and "wireless" segments of a network. The MIB600 is also an effective conduit for sensor data.

The MIB600 offers two separate ports: One dedicated to in-system Mote programming and a second for routine data communication over the LAN. The built-in Power Over Ethernet (POE) feature eliminates the need for an external power source, simplifying installation and maintenance.



MIB600 Block Diagram

Ordering Information

Model	Description
MIB600	Ethernet PC Interface Board

LAN Interface

- Internal web server, serial login, telnet login
- Security: password protection, locking features

Mote Interface

- Connector: 51-pin expansion
- Interface: UART
- 9.6-115.2 k baud
- Mote LEDs - red, green, yellow, power OK
- Management: dedicated TCP/IP port for mote UART

In-system Programming

- Protocol: UISP
- ISP active LED
- Dedicated TCP/IP port for InSystem programming
- Remote Mote RESET

Physical And Environmental

- Size: (L x W x H)
4.63" x 2.29" x 1"
11.76cm x 5.82cm x 2.54cm
- IEEE 802.3af POE 5V/082
- Shipped with external power supply

Specifications

Ethernet Network Interface

- RJ-45
- 100 Base
- IEEE 802.3 / IEEE 802.3af POE mid-span PSE compatible
- ARP, UDP/IP, TCP/IP, Telnet, DHCP, BOOTP, TFTP, Auto IP, and HTTP
- Indicators: 10 Base-T & 100 Base-TX