

MIB510

SERIAL INTERFACE BOARD

- Base Station for Wireless Sensor Networks
- Serial Port Programming for IRIS, MICAz and MICA2 Hardware Platforms
- Supports JTAG code debugging

Applications

- Programming Interface
- RS-232 Serial Gateway
- IRIS, MICAz, MICA2 Connectivity



MIB510

The MIB510 allows for the aggregation of sensor network data on a PC as well as other standard computer platforms. Any IRIS/MICAz/MICA2 node can function as a base station when mated to the MIB510 serial interface board. In addition to data transfer, the MIB510 also provides an RS-232 serial programming interface.

The MIB510 has an onboard processor that programs the Mote processor/radio boards. The processor also monitors the MIB510 power voltage and disables programming if the voltage is not within the required limits. Two 51-pin Hirose connectors are available, allowing sensor boards to be attached for monitoring or code development. The MIB510 is also compatible with the Atmel JTAG pod for code development.

Mote Interface

- Connectors:
 - 51 pin (2)
- Indicators:
 - Mote LEDs: Red, Green, Yellow

Programming Interface

- Indicators:
 - LEDs - Power Ok (Green), Programming in Progress (Red)
- Switches:
 - On/Off switch to disable the Mote serial transmission
 - Temporary switch to reset the programming processor and Mote

Jtag Interface

- Connector: 10-pin male header (2)

Power

- 5V @ 50mA using external power supply (included with unit)
- 3.3-2.7V @ 50mA using Mote batteries

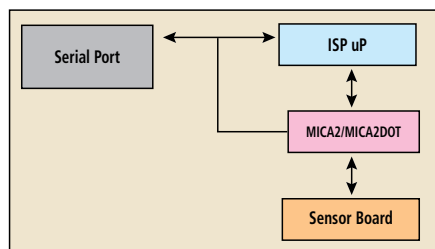


MIB510 with Mote and Sensor Board

Specifications

RS-232 Interface

- Connector: 9-pin "D"
- Baud Rates:
 - User defined (57.6k typical)
 - Programming: 115.2k (uisp controlled)



MIB510 Block Diagram

Ordering Information

Model	Description
MIB510	Serial PC Interface Board