

# COM-485

# RS-485 Interface

## ISA Bus



- Fully RS-485 compatible
- Easy to program
- Allows networking up to 1.2km
- 115.2 kbaud maximum communications rate
- Fully programmable serial interface characteristic

### Ordering Information

COM-485 RS-485 Interface for  
the IBM PC/XT/AT

Keithley's COM-485 board allows ISA-bus compatible computers to be networked over the RS-485 bus. Unlike the RS-422 bus, which allows multiple receivers but only a single transmitter, the RS-485 allows multiple transmitters and receivers to communicate over a 2-wire bus allowing a "party-line" network configuration. The COM-485 allows up to 32 different driver/receiver stations to communicate at 115.2 kbaud. COM-485 stations can be located up to 4000 feet away from each other.

The COM-485 is very easy to program because it can be set up as a COM1 or COM2 standard serial interface port, or it can be set at any other Base Address/interrupt level combination. The board is based on the 16450 UART (8250 and 16450 compatible), and is NOT compatible with standard Windows COM port drivers. Users would need to write register-level programs for their applications.

Applications for the COM-485 include networking instruments and Keithley M1000 modules, scanning, and updating various user input and output devices (such as CRTs, keyboards, etc.), and other communication applications that require more than one device to be simply and inexpensively networked to a personal computer.

### COM-485 Specifications

UART: 16550 (8250 compatible)

NUMBER OF PORTS: 1

MAXIMUM DATA TRANSFER RATE: 115.2 kbaud

MAXIMUM DATA TRANSFER DISTANCE: 4000ft (1220m)

SIZE: 5in L x 4.25in H x 0.75in D (12.7cm x 10.8cm x 1.9cm)

### POWER SUPPLIES

+5V: 500mA typ, 600mA max.

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