



# ME761A-M/F

## SPECIFICATIONS:

Protocol: Asynchronous

Speed: Up to 19,200 bps

Operation: 4-wire full- or half-duplex, point-to-point or multipoint.

Interface: RS-232/CCITT V.24

Connectors: (1) DB25 male or female; (1) 5-screw terminal block.

Power: From RS-232 interface; +6VDC on pins 2, 4, or 20.

## INTRODUCTION:

The Mini Driver MPI asynchronous line driver is used for local data distribution. It connects full- or half-duplex asynchronous terminals to computers. The unit operates over unconditioned 4-wire telephone line, and ensures data integrity for distances up to four miles depending on the gauge and data rate. (see the Distance Chart to the right)

You can strap the Mini Driver MPI to be either constantly ON, or to be Controlled by the RTS. Operation with controlled carrier enables the connection of the Mini Driver MPI in a multipoint configuration. You can also use controlled carrier in applications requiring the passing of a control signal end-to-end--the RTS on the Mini Driver is passed to the DCD on the other unit.

The Mini Driver MPI features a switch selectable DTE/DCE option. The unit can operate as a DTE in order to connect to another DCE, such as a modem or multiplexor port, without the use of a crossover cable. You can also operate the Mini Driver MPI without connecting it to the mains supply. Simply use ultra low power from the standard RS-232C/V.24 data and control signal voltages. The unit fully operates even if only TD and RD are connected--no control signals are generated in compliance with RS-232C/V.24 standards, regardless of constantly high or constantly low Transmit Data.

Low transmit level minimizes cross-talk onto adjacent circuits within the same cable. Data is transmitted and received at a balanced impedance, ensuring excellent immunity to circuit noise.

The Mini Driver MPI is coupled to the telephone line through isolation transformers which, in conjunction with electronic circuitry, protect against AC or DC overvoltages. The transformers are rated at over 1,500 V RMS, making the line driver suitable for connection to local circuits provided by most telephone administrations.

## INSTALLATION:

The Mini Driver MPI is easy to install. Follow the steps below.

1. Separate the two parts of the plastic cover by firmly pressing the marked places on the sides, starting at the cable end.
2. Connect the 4-wire telephone line to the screw terminal block; transmit pair to "XMT" and receive pair to "RCV". Note the correct polarities. If you are using shielded cables, connect the cable shield to the "ground" terminal (optional)
3. The following polarity must be observed:
  - XMT+ on the local Mini Driver MPI must be connected to RCV+ on the remote Mini Driver MPI.
  - XMT- on the local Mini Driver MPI must be connected to RCV- on the remote Mini Driver MPI.
  - RCV+ on the local Mini Driver MPI must be connected to XMT+ on the remote Mini Driver MPI.
  - RCV- on the local Mini Driver MPI must be connected to XMT- on the remote Mini Driver MPI.
4. The Mini Driver MPI is factory set for DCE. To operate the unit as DTE, change the switch to the DTE position.
5. Set the CARRIER strap to either ON (Constantly ON) or CTRL (Controlled by RTS).
6. Plug the unit directly into the DB25 connector of the terminal or computer port.

## Point-to-Point Applications

SPEED	Wire Gauge		
	19-AWG	24-AWG	26-AWG
1200 - 19,200 bps	4.0 miles (6.5 km)	2.5 miles (4.0 km)	1.5 miles (2.5 km)

## Multi-point Applications

SPEED	Wire Gauge		
	19-AWG	24-AWG	26-AWG
1200 - 19,200 bps	1.0 miles (1.6 km)	.75 miles (1.2 km)	.5 miles (.8 km)