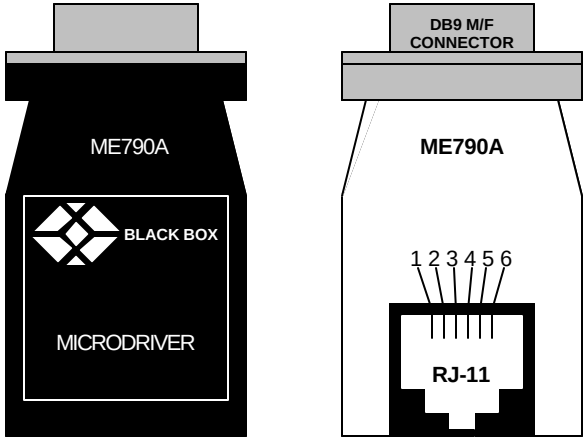


SPECIFICATIONS:

Protocol: Asynchronous

Speed: Up to 19.2 Kbps

Operation: Full Duplex, point-to-point

Transmit Level: 0 dBm

Transmit Line: 4-wire, unloaded/unconditioned line (2-twisted pairs)

Control Signals: CTS (pin 8) turns ON immediately after the terminal raises RTS (pin 7). DSR (pin 6) and DCD (pin 1) turn ON immediately after the terminal raises DTR (pin 4).

Interface: RS-232C/CCITT V.24

Connectors: (1) DB9 male/female (depending on model)
(1) RJ-11 female

Power: No external power supply required; devices power from the RS-232 interface (+6 VDC minimum on Pin 4 or 7 of the DB9 connector; current draw is 3 to 5 milliamps with 10 volts.

DATA RATE (BPS)	DISTANCE IN MILES		
	19 AWG	24 AWG	26 AWG
19,200	6.2	3.7	1.2
9,600	7.5	4.9	2.5
4,800	8.7	5.6	3.7
2,400	11.8	8	4.9
1,200	17	11.8	8

DESCRIPTION:

The Microdriver is a small, short-range, asynchronous, point-to-point, full-duplex line driver that plugs directly into your computer or terminal port. The Microdriver is designed to be used on the IBM, AT and compatibles, NCR Tower, UNISYS 700 series, and other devices with DB9 connectors. You must have one Microdriver at each end of your cabling.

It operates asynchronously up to 17 miles at 1,200 bps and up to 6 miles at 19,200 bps over 4-wire twisted pair cabling.

The Microdrivers are very small in size due to the use of surface mount technology.

The Microdriver/RJ-11 (ME790A) has a female RJ-11 connector to connect to the twisted pair-lines and a male or female DB9 connector (depending on the model chosen) to connect to your computer port.

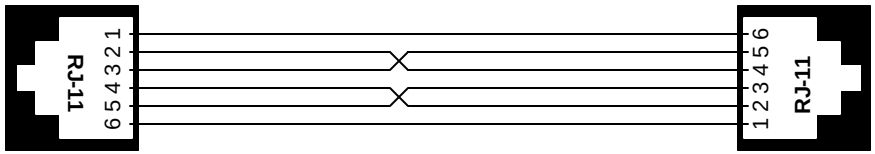
INSTALLATION:

The RJ-11 jack on the Microdrivers is prewired for a standard Telco wiring environment. To be sure you have the right wiring, use the table below.

1. Plug the RJ-11 plug on the twisted pair cable into the RJ-11 socket on the Microdriver.
2. Plug the unit directly into a mating RS-232C connector on your terminal or computer and tighten the two connector screws.
3. Repeat steps 1 and 2 for the Microdriver at the other end of the twisted-pair cable.
4. Installation is now complete. The Microdriver requires no power supply or batteries and will work automatically at any data rate from 0 to 19,200 bps as long as there is a data or control voltage being applied (+6 VDC minimum on Pin 4 or 7 of the DB9 connector).

RJ-11 PIN #	SIGNAL
1	GND
2	RCV-
3	XMT+
4	XMT-
5	RCV+
6	GND (Connection to Ground is Optional)

Connection to ground is optional. If there is a shield around the telephone cable, it may be connected to "G" (GND) on the RJ-11 connector. Connect the shield only at the computer end to avoid ground loops. A ground wire is not necessary for proper operation of these units.



ME790A-M/F