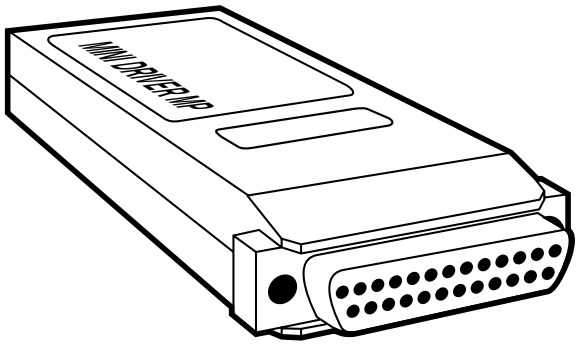
BLACK BOX® NETWORK SERVICES

Black Box Corporation • 1000 Park Drive • Lawrence, PA 15055-1018 • Tech Support: 724-746-5500 • **www.blackbox.com** • **e-mail: info@blackbox.com**

MULTIPOINT MINI DRIVER (MINI DRIVER MP)



Speed, distance, and 50 drops for multipoint data distribution.

Key Features

- ***Handles up to 50 drops without compromising signal quality.***
- ***Some models support 115.2 kbps speeds up to 3 miles (4.8 km). Other models support 38.4 kbps speeds up to 9.4 miles (15.1 km).***
- ***Surge-protected models are available.***
- ***Works with 2- or 4-wire twisted-pair cable.***
- ***Choose from 5-screw terminal block, RJ-11, or RJ-45 models.***
- ***Point-to-point or multipoint.***

When you need high speed and support for up to 50 drops, choose the Multipoint Mini Driver (Mini Driver MP).

Two or more mini drivers carry asynchronous communication between computers and terminals.

In multipoint mode, the ME771A–773A-R2 series boasts speeds of up to 115.2 kbps at a distance of up to 3 miles (4.8 km). The ME745A-R2 supports speeds up to 38.4 kbps at a distance of 9.4 miles (15.1 km) using 19 AWG cable or 4.4 miles (7.1 km) using 24 AWG cable.

The mini driver operates in full or half-duplex mode over 4-wire, and in half-duplex mode only over 2-wire, telco-type lines.

The mini driver also meets the RS-485 pinning standards for a multipoint environment. However, the mini driver doesn't meet the electrical standards for the RS-485 interface and shouldn't be used as an RS-485-to-RS-232 converter.

You can strap the mini driver's carrier to be constantly ON or to be controlled by the RTS signal. Operating with a controlled carrier allows you to connect mini drivers in multipoint configurations over 2 or 4 wires. Special circuitry isolates inactive transmit wire pairs.

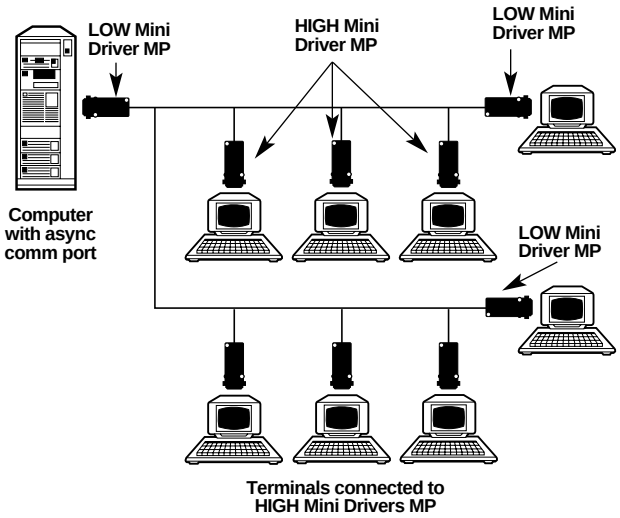
You can also set a separate jumper for high or low impedance on the receive circuit. This enables the mini driver to work properly in multipoint configurations—up to 50 polled modems—without degrading the distance. Also, you can use controlled carrier in applications that require passing a control signal end to end—for instance, when the RTS on one mini driver is passed to the DCD on the other mini driver. A circuit allows a user working in half-duplex mode to receive an echo from the mini driver if the terminals or computer programs used don't have an echo option.

Plus, it's ideal for use with devices that use hardware flow control.

To protect your data from ground loops, surge-protection models feature 600 watts per wire of built-in security.

The mini driver operates without batteries or AC power. It receives its power from the RS-232 interface signals Receive Data (RD, Pin 2), Request to Send (RTS, Pin 4), and Data Terminal Ready (DTR, Pin 20).

Use the Multipoint Mini Driver (Mini Driver MP) to link several buildings within your corporate campus. It'll ensure reliable transmission of your short-haul communications far beyond the RS-232 limit.



A two-line configuration is shown at right ("LOW" and "HIGH" are receive-impedance settings).

Specifications

Protocol: Asynchronous

Operation: 2- or 4-wire, half- or full duplex

Multipoint: 50 drops

Maximum Speed/Distance:
ME771A–773A series: 115.2 kbps up to 3 miles (4.8 km);
ME745A series: 38.4 kbps up to 9.4 miles (15.1 km) using 19 AWG cable or 4.4 miles (7.1 km) using 24 AWG cable

Surge Protection: All models except ME745A series: 600 watts per wire

User Controls: (4) internal straps

Interface: EIA RS-232/CCITT V.24, DCE

Connectors: ME745A-M-R2, ME771A-MSP-R2: (1) DB25 male, (1) 5-screw terminal block;
ME745A-F-R2, ME771A-FSP-R2: (1) DB25 female, (1) 5-screw terminal block;
ME772A-FSP-R2: (1) DB25 female, (1) RJ-11 female;
ME773A-MSP-R2: (1) DB25 male, (1) RJ-45 female;
ME773A-FSP-R2: (1) DB25 female, (1) RJ-45 female

Power: 6 VDC from the RS-232 interface;
ME745A-M-R2, ME745A-F-R2: Pins 2, 4, 20;
All other models:
DTE Mode: Pins 3, 5, 6, 8, 9;
DCE Mode: Pins 2, 4, 9, 20

Size: ME745A-M-R2, ME745A-F-R2, ME771A-MSP-R2, ME771A-FSP-R2: 4.3"H x 2.1"W x 0.9"D (10.9 x 5.3 x 2.3 cm);
ME772A-FSP-R2, ME773A-MSP-R2, ME773A-FSP-R2: 2.7"H x 2.1"W x 0.7"D (6.9 x 5.3 x 1.8 cm)

Weight: 0.2 lb. (0.1 kg)

Ordering Information

ITEM	CODE
Multipoint Mini Driver (Mini Driver MP)	
Mini Driver MP/5-Screw Terminal Block	
Male	ME745A-M-R2
Female	ME745A-F-R2
with Surge Protection	
Male	ME771A-MSP-R2
Female	ME771A-FSP-R2
Mini Driver MP/RJ-11	
with Surge Protection	
Female	ME772A-FSP-R2
Mini Driver MP/RJ-45	
with Surge Protection	
Male	ME773A-MSP-R2
Female	ME773A-FSP-R2