ORDERING

MME/M:
Miniature Modem Eliminator, male connectors

MME/F:
Miniature Modem Eliminator, female connectors

MME

Synchronous Modem Eliminator

Specifications are subject to change without prior notice.

RAD

data communications

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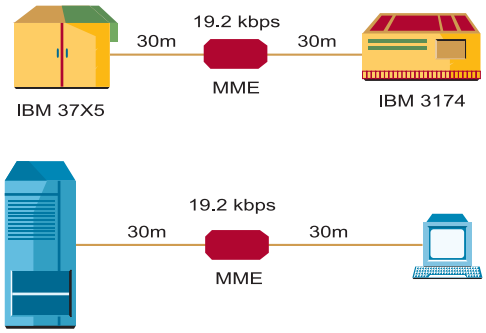
223-100-08/98

FEATURES

- Synchronous
- Selectable data rates up to 19.2 kbps
- Range of 30m/99 ft on each side
- No AC power required
- Easy to install and configure
- Miniature, lightweight

APPLICATIONS



DESCRIPTION

- MME is a miniature modem eliminator, which replaces two synchronous modems by permitting direct port-to-port connection.
- MME is the smallest modem eliminator available in the market. It requires no AC supply connection, using the ultra-low power from the standard RS-232/V.24 data and control signals.
- MME generates the Receive and Transmit clocks required for proper operation of the two synchronous DTEs, as well as all the control signals necessary to emulate dial-up or dedicated service.
- The delay between Request to Send and Clear to Send can be independently set on either port, for 0, 6.6 or 53 msec.
- The Data Carrier Detect signal can either be set constantly to ON, or used as a port-to-port “handshaking” signal where RTS on one port is converted to DCD on the other port.
- Physical connection between MME and its associated terminal and computer is via 25-pin RS-232 connectors, either two male or two female.

SPECIFICATIONS

- **Terminals Supported**
  All IBM 3270 Category A displays and printers, or their compatibles
- **Transmission Format**
  Synchronous
- **Transmission Mode**
  Emulates half or full duplex, dial-up or dedicated lines
- **Data Rates**
  Selectable:
  1.2, 2.4, 4.8, 9.6, 19.2 kbps
- **Range**
  30m/99 ft at 9.6 kbps. The range extends linearly for lower bit rates and decreases for higher bit rates.
- **RTS/CTS Delay**
  0, 6.6, 53 msec
- **DCD**
  Continuous or terminal-controlled
- **Ring Indicator**
  Constantly ON
- **Interface**
  RS-232/V.24
- **Connectors**
  25-pin RS-232 connectors,
  two female or two male (options)

- **Power**
  No power supply required
- **Physical**
  Length: 135 mm / 5.3 in
  Width: 50 mm / 2 in
  Height: 30 mm / 1.2 in
  Weight: 100g / 3.5 oz
- **Environment**
  Temperature: 0-50°C / 32-122°F
  Humidity: Up to 95%, non-condensing

Declaration of Conformity

Mfr. Name: RAD Data Communications Ltd.
Mfr. Address: 12 Hanechoshet St.
Tel Aviv 69710
Israel

declares that the product:

Product Name: **MME**

Conforms to the following standard(s) or other normative document(s):
EMC: EN 55022 (1994): Limits and methods of measurement of radio disturbance characteristics of information technology equipment.
EN 50082-1 (1992): Electromagnetic compatibility - Generic immunity standards for residential, commercial and light industry.

Supplementary Information:
The product herewith complies with the requirements of the EMC Directive 89/336/EEC. The product was tested in a typical configuration.

Tel Aviv, March 31st 1996

Haim Karshen
VP Quality

European Contact: RAD Data Communications GmbH, Lyoner Strasse 14, 60528 Frankfurt am Main, Germany

INSTALLATION

Caution. *This is a delicate instrument. Be careful when setting jumpers or performing any actions within the product so that you do not break or shake any components.*

Installation of the MME is straightforward and simple, no tuning is required. Just follow these steps:

1. Open the unit by pressing the marked places on the sides. If this is difficult, insert a small screwdriver into the slot, where there is a small opening. Lift the handle, gently levering the tip of the screwdriver down. The cover will separate without pressure.

   Note: *Do not insert the screwdriver straight into the middle of the slot, as this may break off the prongs which snap the cover together.*

2. Choose the mode of operation according to *Table 1* and *Figure 1*. There are six strap selections to be made.

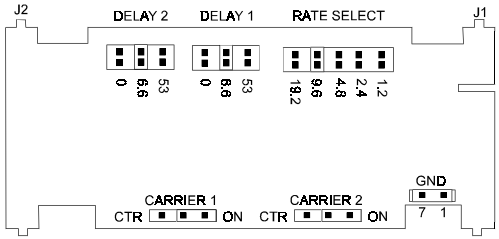
3. Close the unit and plug it directly to the computer and terminal cables.

Table 1 – MME Strap Selection

Strap Identity	Function	Possible Position	Factory Setting
RATE SELECT	Selects the rate at which data is transmitted	1.2 2.4 4.8 9.6 19.2	9.6
DELAY 1	**Selects Modem 1 delay between receipt of Request To Send (CA) and Clear To Send (CB)**	0.0 6.6 53.0	6.6
DELAY 2	**Selects Modem 2 delay between receipt of Request To Send (CA) and Clear To Send (CB)**	0.0 6.6 53.0	6.6
CARRIER 1	**ON: Modem 1 Carrier Detect (CF) is constantly ON** **CTR: Modem 1 Carrier Detect (CF) is controlled by Port 2 Request To Send (CA)**	ON CTR	ON
CARRIER 2	**ON: Modem 2 Carrier Detect (CF) is constantly ON** **CTR: Modem 2 Carrier Detect (CF) is controlled by Port 1 Request To Send (CA)**	ON CTR	ON
GND	**IN: Connects Protective Ground (AA) to Signal Ground (AB)** **OUT: Disconnects Protective Ground (AA) from Signal Ground (AB)**	IN OUT	IN

Figure 1 - MME Strap Selection

for male connectors:



for female connectors: