

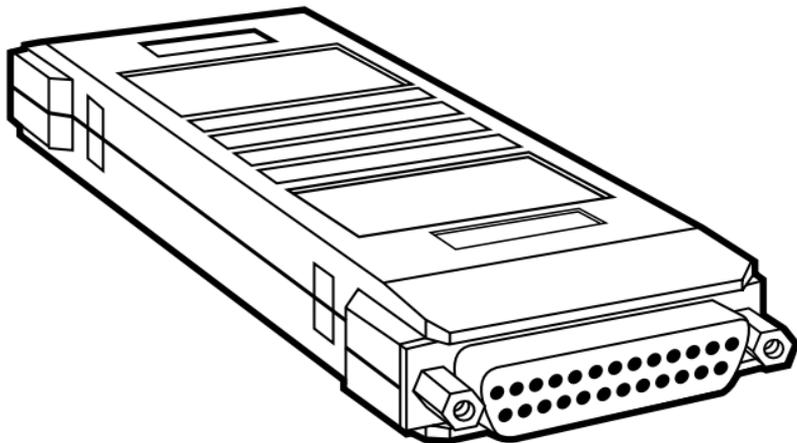


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Nonpowered Synchronous Modem Eliminator (NPR-SME)



CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)

FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**

Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018

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TRADEMARKS USED IN THIS MANUAL

Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

1. Specifications

Data Format—Synchronous or asynchronous

Operation—Emulates half- or full-duplex dialup or dedicated line

Speed—Selectable: 1200, 2400, 4800, 9600 bps, or 19.2 kbps

Range—50 ft. (15 m) at 9600 bps. Range extends at lower bit rates and decreases for higher bit rates (depending upon the environment)

RTS/CTS Delay—0, 6.6, 53 mSec

DCD—Continuous or terminal controlled

Ring Indicator—Constantly ON

Interface—RS-232C/V.24

Connectors—(2) DB25 female or (2) DB25 male

Power—6 VDC minimum

Size—1.2"H x 2"W x 5.3"D (3 x 5 x 13.5 cm)

Weight—3.5 oz. (100 g)

2. Introduction

2.1 General

The NPR-SME replaces two synchronous modems by permitting direct, port-to-port connection between a synchronous terminal and a host computer. It eliminates the need for two synchronous modems and thus provides significant cost savings when direct connection is required.

The NPR-SME is small in size and requires no AC supply connection.

The NPR-SME provides strapping options to emulate a dialup or dedicated service.

2.2 Features

- Synchronous or asynchronous operation
- Easy to install and configure
- Range of 50 ft. (15.2 m) on each side
- No AC power required

NPR-SME

- Easy to install and configure
- Miniature, lightweight

3. Installation

Installation of the NPR-SME is straightforward and simple; no tuning is required. Just follow these steps:

1. Open the unit by pressing the marked places on the sides.
2. Choose the mode of operation according to **Table 1** and **Figure 1**.
3. Close the unit and plug it directly into the computer and terminal cables.

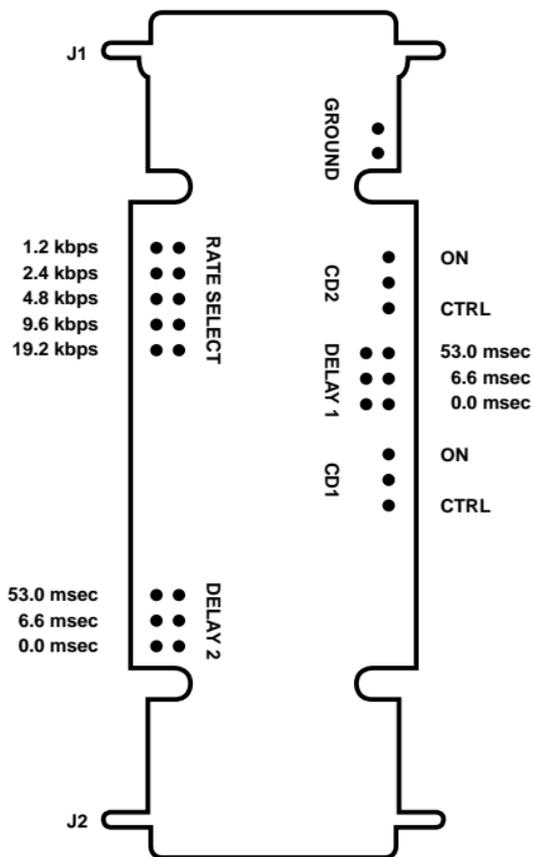


Figure 1. NPR-SME strap selection (for male connectors, for female connectors—mirror image).

Table 1. NPR-SME strap selection

Strap Identity	Function	Possible Position	Normal Factory Setting
Rate Select	Selects the rate at which data is transmitted	1.2 kbps 2.4 kbps 4.8 kbps 9.6 kbps 19.2 kbps	9.6 kbps
Delay 1	Selects Modem 1 delay between receipt of Request to Send (CA) and Clear to Send (DB)	0.0 msec 6.6 msec 53.0 msec	6.6 msec
Delay 2	Selects Modem 2 delay between receipt of Request to Send (CA) and Clear to Send (CB)	0.0 msec 6.6 msec 53.0 msec	6.6 msec
CD1	ON: Modem 1 Carrier Detect (CF) is constantly on CTRL: Modem 1 Carrier Detect (CF) is controlled by port 2 Request to Send (CA)	ON CTRL	ON
CD2	ON: Modem 2 Carrier Detect (CF) is constantly on CTRL: Modem 2 Carrier Detect (CF) is controlled by port 1 Request to Send (CA)	ON	ON
Ground	Connects Protective Ground (AA) to Signal Ground (AB)	IN OUT	IN