



BLACK BOX[®]

NETWORK SERVICES

Miniature Short-Haul Modem NPR

Specifications

Data Rates — Up to 19.2 kbps

Transmission Format — Asynchronous

Transmission Line — 4-wire unconditioned line (two twisted pairs)

Transmission Mode — Full or half duplex 4-wire operation

Transmission Controls — DSR (Circuit 107), turns on immediately after DTE raises DTR (Circuit 108); DCD turns on after recognizing the receive signal from the line; CTS (Circuit 106) turns on 40 msec after DTE raises RTS (Circuit 105)

Carrier Control — Strap-selectable for either continuous operation or switched operation controlled by RTS (Circuit 105) indicator

Transmission Level — 0 dBm

Line Interface — 5-screw (4-wire and ground) terminal block, together with RJ-11 or RJ-45 jack

Transmission Range — (At 1.2 to 19.2 kbps)
19 AWG (0.9 mm): 4.1 miles (6.6 km);
24 AWG (0.5 mm): 1.9 miles (3 km);
26 AWG (0.4 mm): 1.4 miles (2.3 km)

DTE Interface — EIA RS-232/ITU V.24, integral 25-pin connector, choice of male or female

Compliance — EN 55022 (1987), EN 50082-1 (1992)

Operating Temperature — 0 to 50° C

Humidity Tolerance — Up to 90%, noncondensing

Power — At least two of the following DB25 pins must be active:
DCE mode: 2, 4, 20, 24
DTE mode: 3, 6, 8
Typical power drawn from DTE is 40 mW (at least +6V signal level)

Size — 1.8 x 5.3 x 6.6 cm

Weight — 25.5 g

Key Features

▶ *Asynchronous, full or half-duplex.*

▶ *Data rates up to 19.2 kbps.*

▶ *Use in point-to-point or multipoint environments.*

▶ *Transmission range up to 4.1 miles (6.6 km).*

▶ *DCE/DTE mode.*

▶ *Transformer-isolated.*

▶ *No AC power required.*

▶ *Internal filter for high noise immunity and for surge protection.*

▶ *LED indicator for carrier detection.*

Technically Speaking

Use the Miniature Short-Haul Modem NPR for connecting full or half-duplex asynchronous DTEs to DTEs operating over unconditioned 4-wire lines. This SHM ensures integrity of data transmission for distances up to 4.1 miles (6.6 km), depending on wire gauge and data rate.

Other features include:

- Equipped with a switch-selectable DTE/DCE interface, and a switch-selectable printer support mode.
- Operates without connection to the mains supply; uses power from the data and control signals.
- Minimizes crosstalk.
- Isolation transformers protect against AC or DC overvoltages.
- Models with RJ-11 or RJ-45 connectors available.

For these and other components...

Call our expert Technical Support Staff for all your modem and accessory needs. They'll help you find the best equipment for your application.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Miniature Short-Haul Modem NPR	
RJ-11, Female.....	ME795A-F-RJ11
RJ-11, Male.....	ME795A-M-RJ11
RJ-45, Female.....	ME796A-F-RJ45
RJ-45, Male.....	ME796A-M-RJ45