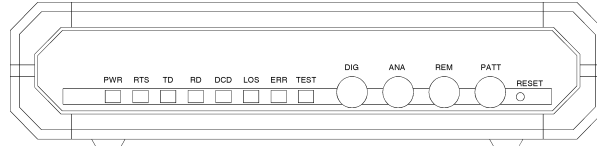
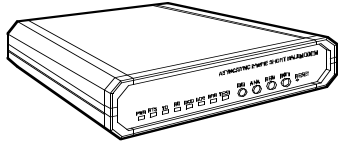


BLACK BOX[®]

NETWORK SERVICES

Async/Sync 2-Wire Short-Haul Modem



The front panel of the Async/Sync 2-Wire Short Haul Modem.

Send sync or async data up to 3.4 miles (5.5 km) over your existing 2-wire twisted-pair lines.

Key Features

- ▶ 2-wire, twisted-pair operation.
- ▶ Speeds of up to 128 Kbps.
- ▶ Full-duplex operation using "echo cancellation."
- ▶ Single sync/async channel.

The Async/Sync 2-Wire Short-Haul Modem (A/S2W SHM) operates full duplex sync or async over a single 2-wire twisted pair, at selectable data rates from 600 bps up to 128 Kbps. It incorporates interface circuits for the terminal or computer, an adaptive echo-canceller, an automatic adaptive equalizer, a modulator, and a

demodulator.

The Modem uses 2B1Q line coding, and provides an operating range of up to 3.4 miles (5.5 km) over 26-AWG twisted-pair wire.

An adaptive equalizer provides performance over low-quality lines.

In addition, the short-haul modem can be used to operate full-duplex over one pair of dedicated telephone lines. Full-duplex operation uses echo cancellation. You set one modem to be a master and the other to be a slave.

The A/S2W SHM also features diagnostic capabilities including local analog loopback and local and remote digital loopback.

An isolation transformer protects against AC or DC overvoltages. The protection circuitry enables the unit to survive even if DC is accidentally connected to the line.

Specifications

Interfaces — ME375A:

RS-232;
ME375C: RS-232, RS-530,
or X.21;
ME376A: V.35

Protocols — DTE side:

Sync or async
Line side: 2B1Q encoding

CE Approval — ME375C

Clocking — Internal, external,
receive

Operation — Full duplex

Data Rates — 128, 115.2, 64,
57.6, 48, 38.4, 19.2, 9.6, 4.8,
2.4, 1.2, and 0.6 Kbps

Maximum Distance —

DTE side: ME375 models:
15.2 m;
ME376 models: 7.6 m;
Line side: 5.5 km
over 26-AWG wire

Connectors —

ME375A: (1) RJ-45 F,
(1) 3-clip terminal
block, (1) DB25 F;
ME376A: (1) RJ-45 F,

(1) 3-clip terminal
block, (1) 34-pin
M-block F

Power — 115 VAC, 60 Hz (230-
VAC, 50-Hz version
on request)

Power Protection — Slow-blow
fuse; AC/DC overvoltage-
protection circuits connected
through transformers to
transmit and receive leads on
the line side; gas diodes

Maximum Altitude — 2438.4 m

Temperature Tolerance —
0 to 50° C

Humidity Tolerance — Up to
90%, noncondensing

Size — Standalone: 4.6H x
19.3W x 24.3D cm

Weight — Standalone:
Net: 1.4 kg;
Shipping: 2.7 kg

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Async/Sync 2-Wire Short-Haul Modem	
RS-232/V.24.....	ME375AE-R2
V.35.....	ME376AE-R2
Async/Sync 2-Wire Short-Haul Modem Cards	
RS-232/V.24.....	ME375C-232
RS-530.....	ME375C-530
X.21.....	ME375C-X21
YOU MAY ALSO NEED...	
RackNest 2/14 115-VAC.....	RM110AE
Power Supply 115-VAC.....	PS1000AE
V.35 Adapter FM150.....	FM150
X.21 Adapter.....	FM151

Note: The FM150 and FM151 adapters are to be used with either the V.35 or X.21 cards. Each adapter supports 2 cards.