

# SIEMENS

## Installation Instructions

### Model NIM-1M

### Network Interface Modem Module

## OPERATION

The Model NIM-1M plug-in modem board from Siemens Industry, Inc., mounts to and is connected to the NIM-1W board to provide modem communication capability for an MXL System XNET network.

The modem transmission line connected to the NIM-1M can only be Style 4 and can be made using standard 18 AWG shielded twisted pair or data grade phone lines.

**Note:** A pair of NIM-1W / NIM-1M board sets is referred to as a "bridge" in this document.

## INSTALLATION

**Remove all system power before installation, first battery and then AC.** To power up, connect AC first, then the battery.

### Setting the Switches

Before mounting the NIM-1M modem module on the NIM-1W, set all the switches and configuration jumpers on both modules. Refer to the *NIM-1W Installation Instructions*, P/N 315-099165 for information on setting the switches on the NIM-1W.

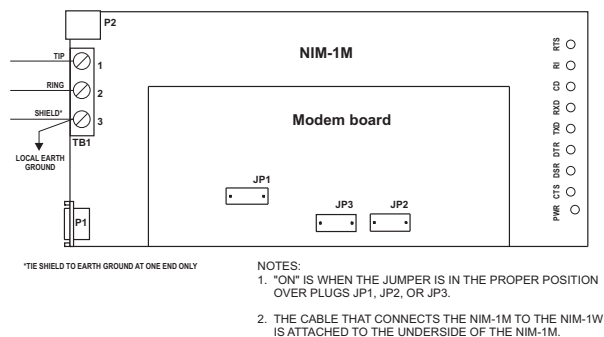


Figure 1  
NIM-1M Module Board

## NIM-1M SETTINGS

The NIM-1M has three configuration headers (refer to Figure 1). The NIM-1Ms are always connected in board sets, or pairs, with NIM-1Ws to form the bridge. Designate one board set as NIM-1M LOCAL and the other as NIM-1M REMOTE. Program the NIM-1Ms as shown in Table 1.

TABLE 1 PROGRAMMING THE NIM-1Ms				
NIM-1M LOCAL			NIM-1M REMOTE	
JP1	ON		JP1	ON
JP2	ON		JP2	OFF
JP3	OFF		JP3	ON

## Mounting

The NIM-1M is mounted on the NIM-1W with 4 nylon spacers.

1. Snap the 4 nylon spacers into place in the holes on the underside of the NIM-1M board in the positions indicated in Figure 2.
2. Position the 4 spacers on the NIM-1M over the 4 holes on the component side of the NIM-1W. Refer to Figure 3 for representative location of the NIM-1M on the NIM-1W. Press the spacers firmly into place in the NIM-1W one at a time.

## Cable Connections from NIM-1M to NIM-1W

The NIM-1M has a cable attached to the underside of the board that connects to JP1 of the NIM-1W. The cable plug is polarized and connects one way only. Refer to Figure 3 for the location of JP1. Refer to the NIM-1W installation instructions, P/N 315-099106, for installing MXL WAN.

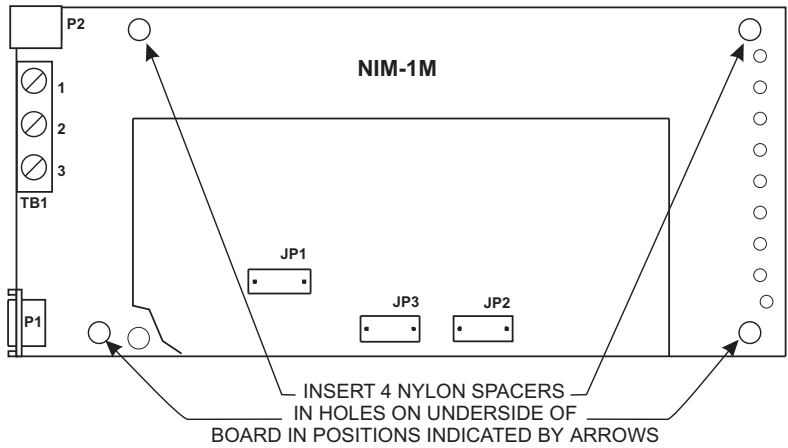
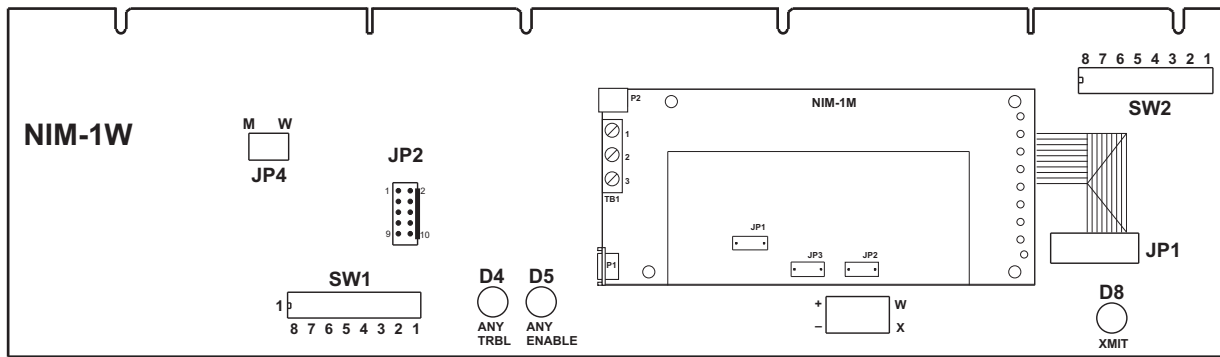


Figure 2  
Installing the Spacers on the NIM-1M Module Board



NOTE: SHORT TO EARTH GROUND ON TB1, TERMINALS 1 OR 2 WILL CAUSE GROUND FAULT.

Figure 3  
Mounting the NIM-1M Module Board on the NIM-1W Module Board

## ELECTRICAL CONNECTIONS

**Note:** All connections to the NIM-1W / NIM-1M board set are power limited to NFPA 70 per NEC 760. All connections are also supervised.

### NIM-1M Modem Connections

Modem connection to the NIM-1M can be made through the standard RJ11 jack (P2) or through TB1 (refer to Figure 2). If TB1 is used, connect TB1-1 TIP Local to TB1-1 TIP Remote and TB1-2 RING Local to TB1-2 RING Remote. P1 is for factory use only.

TB1 terminal assignments are as follows:

- TB1-1 TIP
- TB1-2 RING
- TB1-3 LOCAL EARTH GROUND

TB1-3 must be connected to local earth ground. If shielded cable is used, connect shield to local earth ground at one side of modem connection only.

**Note:** When an MXL XNET network using the model NIM-1W with model NIM-1M board set is

brought on line, there may be some delay in network communications while the modems on the model NIM-1M board establish communications. This may cause a temporary system trouble which can be cleared once communications are established.

Refer to the NIM-1W Installation Instructions, P/N 315-099165, to continue with the installation of the NIM-1W / NIM-1M board set.

## ELECTRICAL RATINGS

Active 5VDC Module Current	0mA
Active 24VDC Module Current	70mA
Standby 24VDC Module Current	70mA

FSK @ 19.2kbps  
Transmit level: 10 Dbm  
Receive level: 43 Dbm