

SIEMENS

Installation Instructions

Model NET-7M

Communication Interface

INTRODUCTION

The Model NET-7M from Siemens Industry, Inc. provides a Style 7 communication interface between the main MXL and multiple remote panels in an MXL system using two separate RS-485 pairs. Each NET-7M, except the NET-7M connected to the MMB, electrically isolates the pairs from the local power supply and isolates ground faults to a single remote panel. The MMB provides ground fault detection for the two pairs.

Each NET-7M connected represents one network drop on the MXL System. There can be a maximum of 32 drops.

Two green LEDs on the NET-7M indicate the state of two communication pairs. These light whenever the NET-7M receives a message on a given pair. Use these two LEDs when troubleshooting to determine if a pair is active.

CAUTION: NET-7s and NET-4s cannot be combined in the same system.

APPLICATION

The NET-7M **does not** supervise the network wiring and must be used in combination with the NET-7. The NET-7M requires CSG-M Revision 9.01 or higher; however, the NET-7M does not support the *NET-7 Panel Checking* function.

There are two ways to wire a Style 7 network — daisy chain and counter rotating. The major

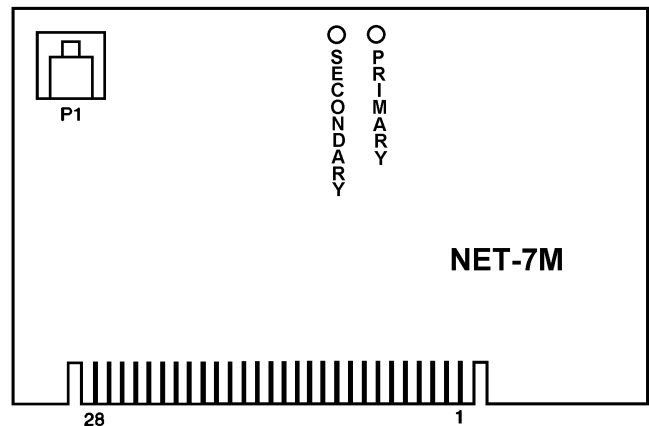


Figure 1
NET-7M Board

difference in wiring is where the end-of-line resistors are located (See Figure 2).

The NET-7M cannot be located at the ends of either network pair. The end of a pair is defined as the point where an end-of-line resistor is installed. The basic rule is that if either network pair has an end-of-line on the screw terminals, a NET-7 must be used. Conversely, a NET-7M can only be used in locations where there are no end-of-line resistors on the network terminals.

For additional information on the MXL/MXLV System, refer to the *MXL/MXLV Manual*, P/N 315-092036.

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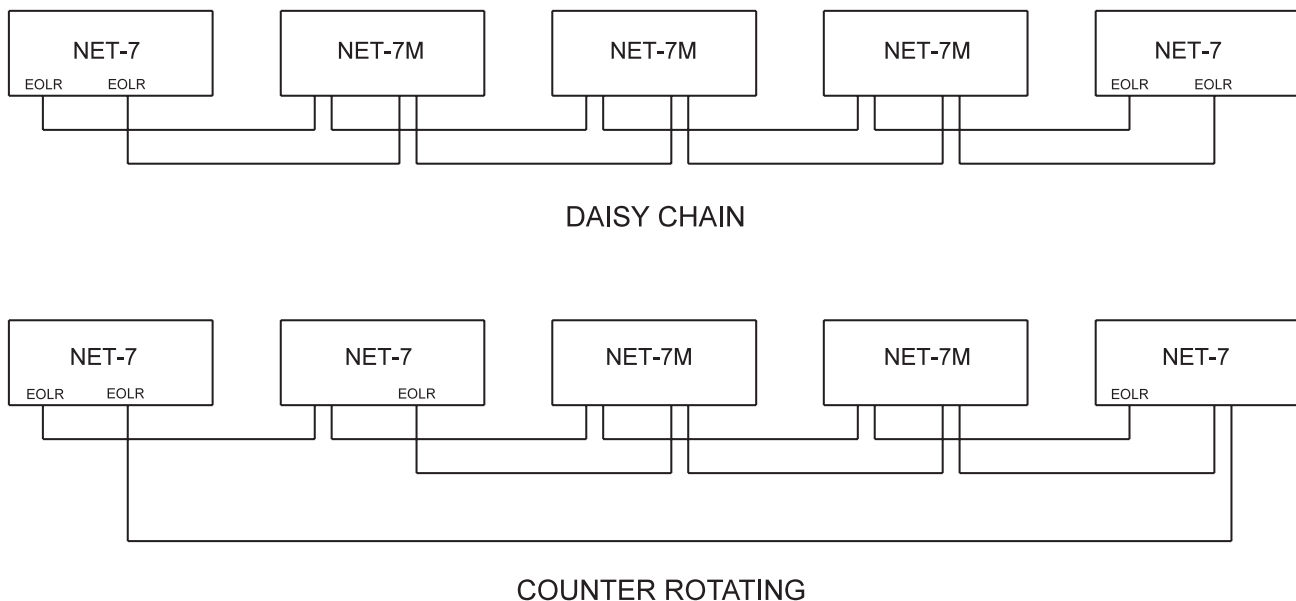


Figure 2
Style 7 Network Wiring Configurations

INSTALLATION

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

All wiring must comply with national and local codes.

1. Remove the NET-7M from the antistatic bag.
CAUTION: Do not touch the gold plated card edge on the NET-7M.
2. Decide whether to install the NET-7M into a PSR-1 or into the enclosure with the MMB. If the installation is in a PSR-1, skip to step 8.
3. Install the NET-7M that is in the enclosure with the MMB in a MOM-4 slot. Any available MOM-4 slot can be used. Mount one of the two card guides provided in the MOM-4. Slip the guide under the mounting screw in the center of the MOM-4 and tighten.
4. Refer to Figure 2 for the wiring diagram. Check all wiring prior to installing the NET-7M into the MOM-4. Failure to properly wire the NET-7M can cause damage to the board.

5. Install the NET-7M into the MOM-4 slot. Be sure that the board is firmly seated in the card edge connector. This completes the installation of the NET-7M with the MMB.
6. When used with a PSR-1, install the NET-7M into connector P7.
 - If screws are in the location where the card guide is to be installed, remove the screws and mount the card guide with the hardware supplied.
 - Mount the two card guides supplied onto the PSR-1 by loosening the screws above and below P7. Then slide the guides under the screws and tighten them.
7. Refer to Figure 2 for the wiring diagram. Connect the network wires to TB4 on the PSR-1 as shown.
8. Install the NET-7M into P7. Be sure that the board is firmly seated.

ELECTRICAL RATINGS

Active 5VDC Module Current	120mA
Active 24VDC Module Current	0mA
Standby 24VDC Module Current	30mA

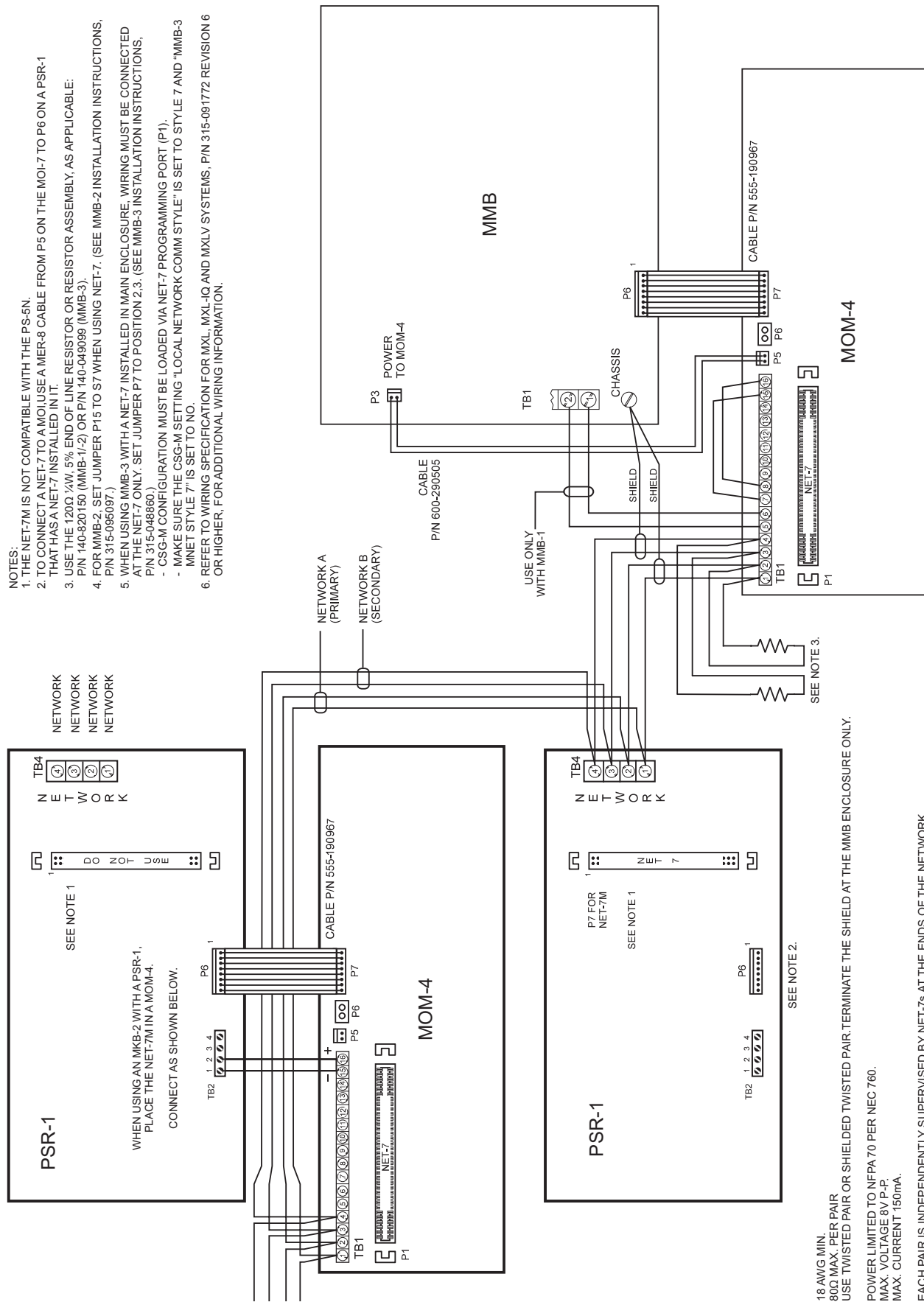


Figure 3 NET-7M Wiring Diagram

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