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CERBERUS PYROTRONICS REP-1 Network Repeater Module Owner's Manual

Contents

CERBERUS PYROTRONICS REP-1 Network Repeater Module

FEATURES

- RS-485 Network Communications Repeater
- Network Star Wiring Configuration
- Two Style 4 or One Style 7 Circuit(s)
- Expands Network Distances
- Half MOM Card Slot
- Increases MXL Node Count to 64
- Local or Global Repeater
- Style 7 to Style 4 Conversion
- UL Listed

Description

The REP-1 is an optional MXL module that extends the distance of the MXL's RS-485 network. The REP-1 provides the ability to support various wiring configurations including series and star configurations. The REP- 1 provides the ability to support NFPA Style 4 or Style 7 network communications wiring. The REP-1 can be used to provide network wiring between MXL panels or MXL and MXLR panels. The REP-1 is a one-half slot card that plugs into a MOM-4 or MOM-2 cardcage. The REP-1 allows MXL network distances to be expanded to allow greater application flexibility. The REP-1 is an RS-485 repeater module capable of being configured as one Style 7 or two Style 4 network communication lines. The REP-1 provides the ability to convert from a Style 7 network to a Style 4 tap.

This Style 4 tap can be used for annunicators that may not require Style 7 wiring (such as RCC-1 or MOI/MOD-16). Using the REP-1 expands the MXL, MNET or XNET node count to 64. In MXL configurations which require network distance in excess of 5,000 feet of copper wire, the REP-1 provides greater network wire distances in either straight or star configurations. Up to two REP-1s may be connected in series, with no limitation in the number of REP-1s in an MXL system with star configuration wiring. This equipment is approved for operation over the temperature range of 0°C to 49°C.

Engineer and Architect Specifications

The REP-1 shall be an RS-485 network repeater module and shall provide two Style 4 or one Style 7 network communication line(s). The REP-1 shall occupy a single one-half MOM-4 or MOM-2 cardcage slot. REP-1 shall provide network communications between the MMB and PSR or MOI as well as between MMB/NIM-1R and MMB/ NIM-1R. RS-485 communication shall be supported for NFPA Style 4 or Style 7 in any combination of serial or star type wiring configurations.
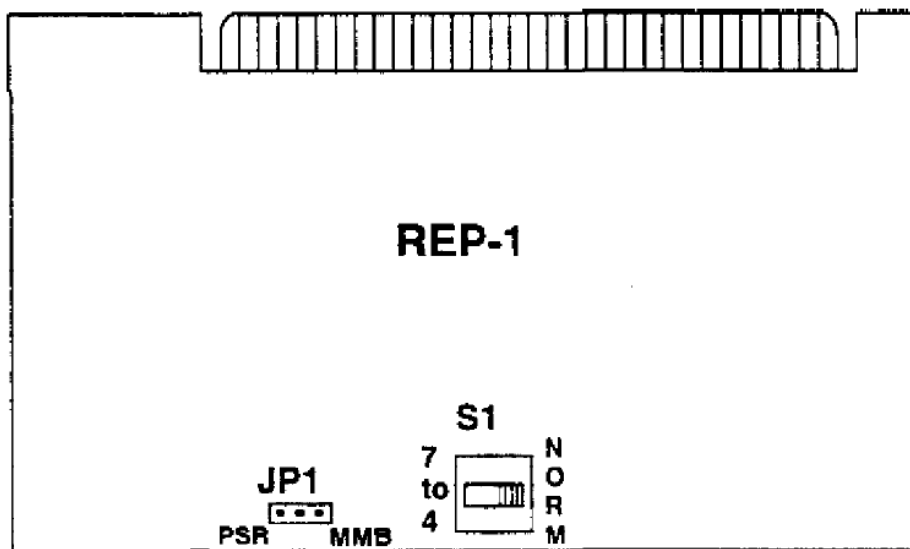
Electrical Ratings

- **Input Voltage**: 18-31 VDC
- **Supervisory Current**: 40mA @ 24 VDC
- **Operating Temperature**: 0°C to 49°C
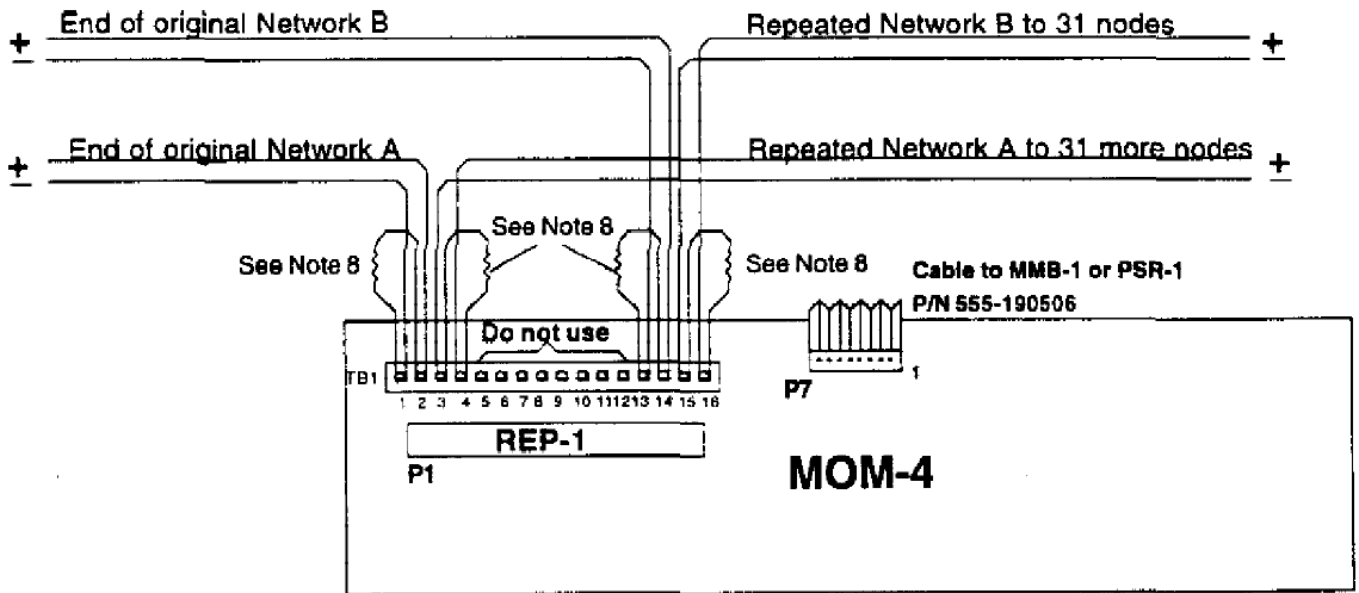- **Maximum Line Resistance**: 80 Ohms per pair

Ordering Information

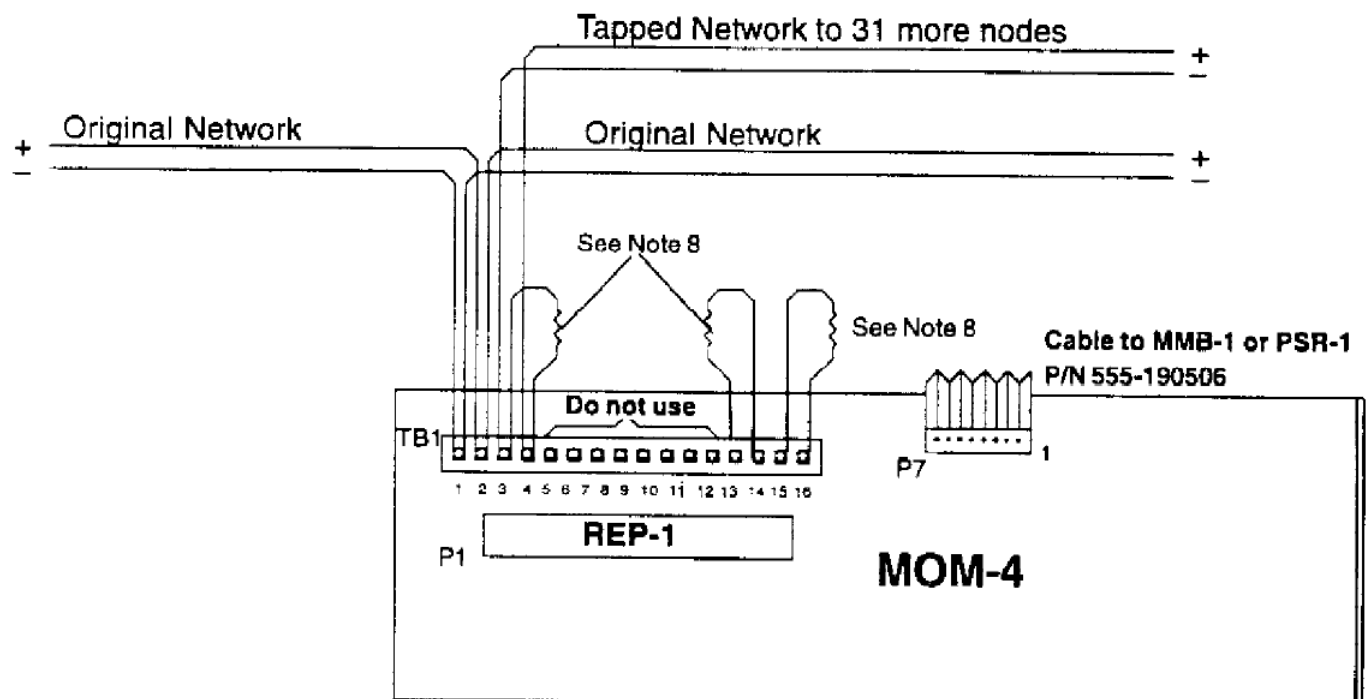| Model	Description	Part No.
REP-1	Network Repeater Module	500-892954
	Installation Instructions	315-092686

Module Diagram

MXL Network Wiring as a Repeater

Notes:

1. Use 18 AWG minimum wire.

2. Limit the maximum ohms per pair to 80.

3. Use shielded twisted pair.

4. End the shield ONLY at the MMB-1 enclosure.

5. The wiring is power limited according to NFPA 70/NEC Article 760.

6. Maximum voltage is 8V P-P.

7. Maximum current is 150mA.

8. Use the end-of-line resistor P/N 140-820150 (120 ohms, 1/4W)

MXL with Star Network Wiring

Notes:

1. Use 18 AWG minimum wire.
2. Limit the maximum ohms per pair to 80.
3. Use shielded twisted pair.
4. End the shield ONLY at the MMB-1 enclosure.
5. The wiring is power limited according to NFPA 70/NEC Article 760.
6. Maximum voltage is 8V P-P.
7. Maximum current is 150mA.
8. Use the end-of-line resistor P/N 140-820150 (120 ohms, 1/4W)

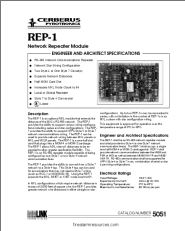Cerberus Pyrotronics 8 Ridgedale Ave. Cedar Knolls, NJ 07927

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8/96 5M CPY-IG Printed in U.S.A

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Documents / Resources

CERBERUS PYROTRONICS REP-1 Network Repeater Module [pdf] Owner's Manual
REP-1 Network Repeater Module, REP-1, Network Repeater Module, Repeater Module, Module

References

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