



MIU 202T MODEM

0-1200bps, Leased Line

**AC/DC Powered
Substation Hardened**
Bell 202T or V.23



KEY FEATURES

- 0-1200bps Over Voice Grade Leased Lines
- Point-to-Point or Multi-Point
- -48 to 220V AC/DC Power Supply
- -9 to -36VDC Optional Power Supply
- IEC801-4 Surge Protection
- -40°C to +85°C Operating Temp.
- For Meters, RTUs, SCADA, etc.

The MIU202T is a Bell Standard 202T modem designed for asynchronous operation at 0 to 1200bps over voice grade leased lines and pilot wires. If required, a V.23 (1200bps) model is also available by special order. Ask for the MIU23.

The modem is intended for use on leased lines and private lines providing half duplex communications on 2-wire lines, or full duplex communications on 4-wire lines.

Most modem manufacturers have abandoned Bell 202T in favor of the much higher speed modulation preferred in dial-up systems. However, Bell 202T remains the standard of choice in many utility and industrial applications where relatively small amounts of data are to be transmitted in multi-point networks.

To meet this continued demand, **Raymar-Telenetics** has added the MIU202T to its range of Communication Interface Units.

The MIU202T can be powered from any AC or DC voltage in the range -48V to 220V. A -9 to -36VDC version is also available. It is designed to work in extended temperatures ranging from -40°C to +85°C, and is surge protected to 8kV, double the voltage requirements of IEC801-4 standard.

All of this is bundled in a 5-3/8" x 4" x 1-3/8" non-metallic enclosure, suitable for desktop or wall mounting. Rack mount cards are also available for the **Raymar-Telenetics** Myriad™ system.



Bell 202T continues to be the standard of choice in many utility and industrial multi-drop data communications applications.

The **Raymar-Telenetics** MIU202T can be powered from a wide range of AC and DC voltages, is surge protected on both the power and analog lines, and will operate in extreme temperatures.

Ideal for multi-drop applications over leased lines and private lines.

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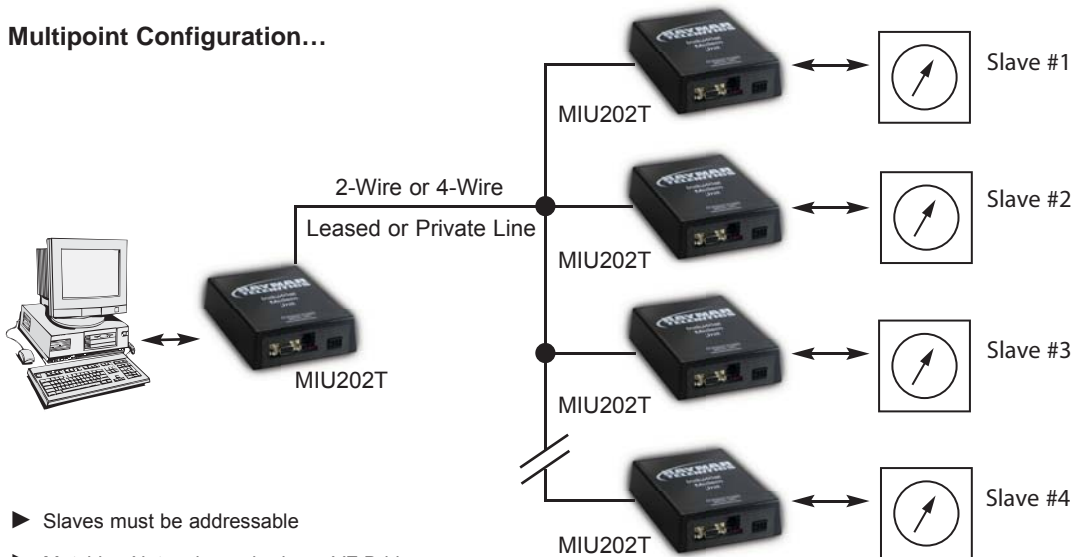
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MIU 202T Modem / 0-1200bps, Leased Line AC/DC Powered Substation Hardened / Bell 202T or V.23

TECHNICAL SPECIFICATIONS

| | | | |
|----------------------------------|--|---|--|
| Data Rate: Asynchronous: | 0 to 1200 bps over voice grade leased lines or pilot wires | | |
| Modulation: | Bell 202T (V.23 available by special order) Phase Coherent, Frequency Shift Keyed (FSK) | | |
| Operation: | Full Duplex Over 4-Wire Leased or Private Lines, Half Duplex Over 2-Wire Leased or Private Lines (Constant or Switched Carrier, DIP Switch Selectable) | | |
| Power Supply: | -48VAC/DC to 220VAC/DC (Optional -9 to -36V DC) | | |
| Power Consumption: | 15mA @ -48V DC; 7.5mA @ 115V AC; 7.5mA @ 125V DC | | |
| Digital Port: | RS232 with DB9 Connector | | |
| Analog Port: | RJ-11 | | |
| Power Connector: | 3-pin with Screw Terminals for Customer Supplied Cable | | |
| Surge Protection: | Power Line: 8kV (Exceeds IEC801.4) / Analog Line: 3.75kVac | | |
| Operating Environment: | -40°C to +85°C, 0 to 95% humidity (non-condensing) | | |
| Case Size/ Weight: | Size: 5-3/8" x 4" x 1-3/8" Weight: 1 lb | | |
| Carrier Frequencies: | Bell 202T: | Mark 1200Hz ± 0.1% Space 2200Hz ± 0.1% | V.23: Mark 1300Hz ± 0.1% Space 2100Hz ± 0.1% |
| Line Impedance: | 600 ohms | Antistreaming: | 45 seconds or None |
| Transmitter Output Level: | 0 or -10dBm | Receive Sensitivity: | -33 or -43dBm |
| RTS/CTS Delay: | 1, 12, 35 or 50msec | Carrier Detect Delay: | 8.5msec |
| Soft Carrier Turnoff: | 8.3msec | Test Features: | Analog Loopback |

Multipoint Configuration...



- ▶ Slaves must be addressable
- ▶ Matching Network required, eg; VF Bridge (Not supplied by Raymar-Telenetics)



Manufactured in the USA by RAYMAR-TELENETICS

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WARRANTY

Raymar-Telenetics manufactured products are warranted against defects in hardware material and workmanship under normal use for one (1) year from date of original retail purchase. Defective product will be repaired or replaced, determination to be made by Raymar-Telenetics, at no charge. Repaired or replaced products are warranted for 90 days or for original warranty period, whichever is longer. Warranty extends to original end-user only.