

Tactical Fiber Optic Modem

TRI-TAC / IP

TYPICAL APPLICATIONS

- Interconnect tactical communication assemblages, including:
 - Radio terminals
 - Radio repeaters
 - Tactical switches
 - Circuit switches
 - Tactical multiplexers
 - Satellite support radios
 - TACC shelters
- Tactical communication systems
- Down the hill links
- Intra-node cabling
- Dispersed command post
- Disaster relief

FEATURES

- 110 - 240 VAC, 50 - 60 Hz
- Power consumption is less than 20 watts
- Automatic rate sensing
- Rack space required - 1 RU
- Weight 4.6 lbs (2.1 kg)
- Operating temperature -40 to +85° C
- Storage temperature -57 to +85° C
- MD1272 / G compatible

BENEFITS

- No operator interface required
- Redundant DC power to each channel
- Low power
- High reliability
- Full functional test and environmental screening on every unit
- Ruggedized mechanical package



The TRI-TAC / IP Fiber Optic Modem provides optical links between mobile shelter equipment and remote sites for secure tactical communications. Utilizing the Internet Protocol (IP) sections of this interface at each end of the multimode fiber optic cable, the modem converts between electronic and optical transmission modes for repeaterless communication at distances of up to 2 kilometers. The IP section of the TRI-TAC / IP FOM automatically configures itself for 10 or 100 Mbps operation. The three 10 / 100 interfaces connect to digital communication equipment through RJ45 electrical connectors. The optical interface is accomplished via three sets of ST connectors (RX and TX each channel).

The TRI-TAC section of the TRI-TAC / IP FOM is a major unit of the Fiber Optic Transmission System (Long Haul). The FOM performs electro-optical conversion for full duplex transmission of digital communications signals between tactical shelters and remote sites using tactical fiber optic cable assemblies instead of CX-11230 coaxial cables. The electrical interface is accomplished through DB44 to DB25 adapter connectors; one if connecting to DTE equipment and the other if connecting to DCE equipment. The electrical Conditioned Diphasse link is accomplished via a DB44 to two Female 50 ohm BNC connectors (TX and RX). The optical link utilizes two ST connectors (RX and TX). Interfaces can be either Non-Return to Zero (NRZ) clock and data or Conditioned Diphasse (CDP).

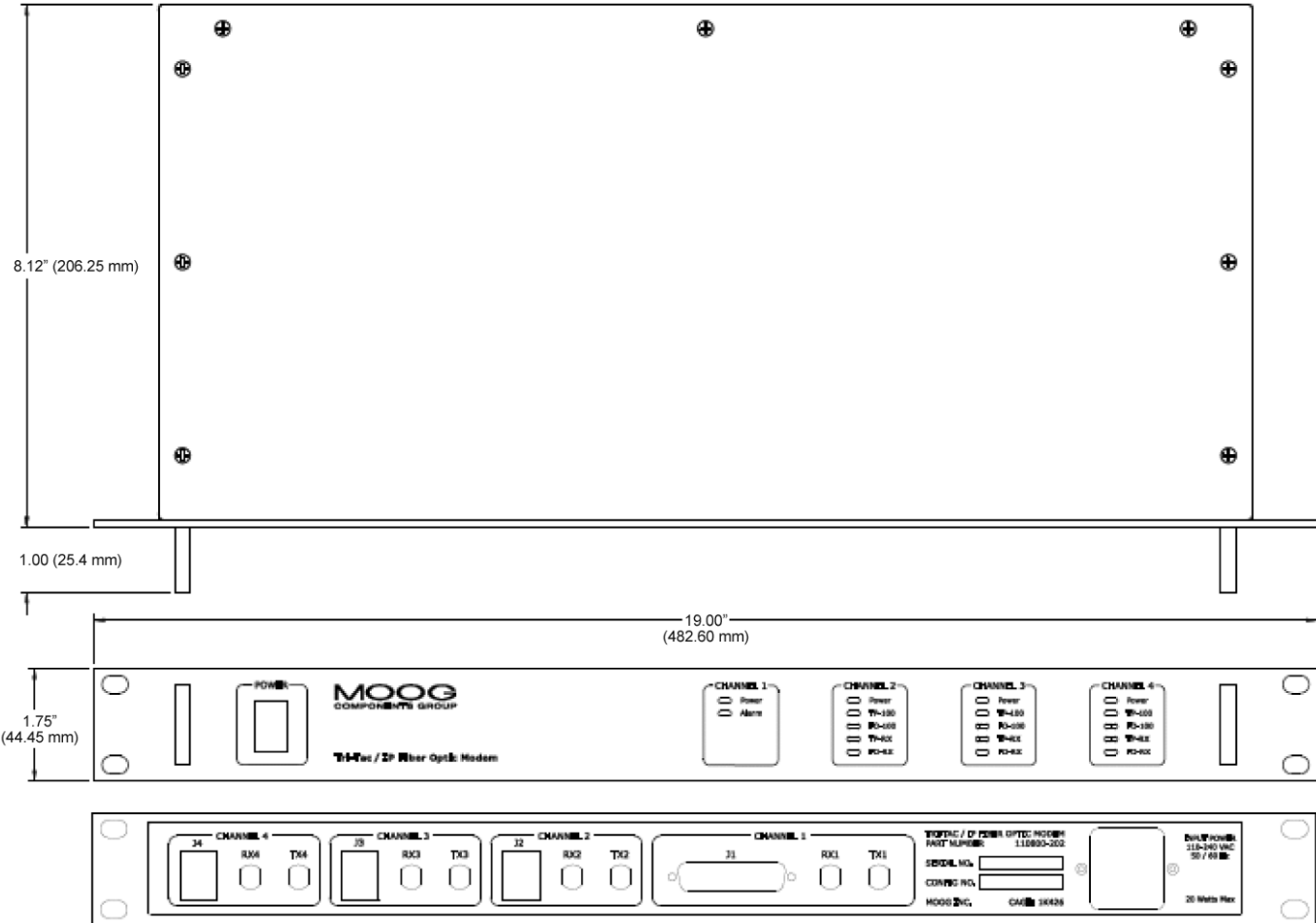
MOOG
COMPONENTS GROUP

PHYSICAL CHARACTERISTICS

- Size:

	Case Height	Case Width	Case Depth
English:	1.75 inches	19 inches	8.12 inches
Metric:	44.45 mm	482.60 mm	206.25 mm

- Weight: 4.6 lb (2.1 kg)
- Rack Space: 1 RU



ACCESSORY ITEMS

- AC power cord; 110 - 240 VAC, 50 - 60 Hz
- DB44 to DB25 adapter connector (DTE)
- DB44 to DB25 adapter connector (DCE)
- DB44 to Dual BNC adapter connector (Conditioned Disphase)