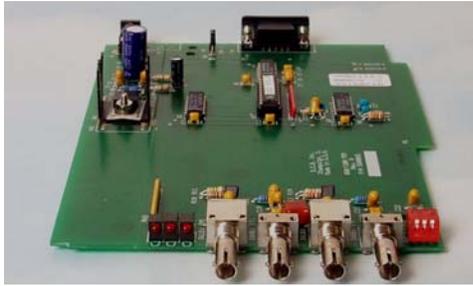host computer, which sends out polling data to downstream Remote units.

In the master mode, transmit data from the RS-232 interface is sent downstream to the Remote units, in parallel over the two emitters.

In the remote mode, the data is daisy chained. Data coming in on detector 1 is sent to the RS-232 receive port, and is regenerated to the emitter 2 fiber optic link. Data coming in on detector 2 is regenerated and sent out over emitter 1 and this data is not seen on the Local RS-232 interface. RS-232 transmit data on the local unit is sent out over emitter 1, upstream back to the master.

The FOM units can be powered with an external AC wall mount transformer, or with 12, 24 or 48 VDC, or 125 VDC. The fiber optic modems will operate over a wide temperature range. Units can be standalone, mounted 1, 2 or 3 across in a 1U rack height, or can be mounted in a 20 slot central site chassis.

- Fiber Optic Modem/Line Driver
- Single Mode or Multimode versions
- Point to point or daisy chained multipoint
- RS-232 interface
- Async speeds 230.4 Kbps
- Anti-streaming timer option
- LED indicators
- -40 to +75 C operation
- Standalone or rack mount
- Rack up to 3 standalone units 1U high
- 20 slot 4U rack chassis

DESCRIPTION

The FOM-02 Fiber Optic Line Driver transmits asynchronous data up to 230 Kbps over 5 Km of multimode fiber optic cable, up to 30 km with single mode cable. It can be used point-to-point or can be daisy chained. Two models are available, 850 nm for multi-mode fiber and 1300 nm for single mode fiber.

The unit has a pair of emitters and a pair of detectors. The FOM-2 can be set up as a Master or Remote unit. A multidrop circuit has a Master modem, located at the

FOM-02 Fiber Optic Line Driver

SPECIFICATIONS

General
   Rates: RS-232 to 230 Kbps
   Application: Point-to-point or multidrop daisychain

Indicators (front panel)
   Power, Transmit, Receive

Controls
   Master or Remote mode for point to multipoint operation
   Anti-streaming enabled or disabled
   Detector 2 enabled or disabled

Ports
   DTE Port: RS-232
   DTE port connector: DE-9S
   ST type fiber connectors

Physical/Electrical
   Power requirements: 120 VAC power supply
   or 12, 24, 48 or 125 VDC options
   60 Hz, 7 Watts
   5.625" x 8.25" x 1.45"
   Two pounds

Models:
        FOM-02MSA Standalone unit, multimode
        FOM-02SSA Standalone unit, singlemode
        FOM-02MRM Rackmount unit, multimode
        FOM-02SRM Rackmount unit, singlemode
        DCB L1 20 slot rack , 7" high (4U)

Application:

Rear View of FOM-2SA

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Point to Point Application

Point to Multipoint Application