

MP-4235TRX

## Bidirectional Fiber Optic Modem



### Provides asynchronous serial equipment to communicate in full duplex over distances up to 20 km

The MP-4235TRX is a compact fiber optic transceiver operating in the 1310/1550 WDM wavelength band. The MP-4235TRX is configurable with your choice of data protocol formats. The digital interface options include: RS-232, RS-422. Mixed data protocol formats are available (i.e. RS232 to RS422 ). The MP-4325TRX is specified as a pair of complementary wavelength pass band devices that function in an end to end link for communications over one fiber. The link provides asynchronous serial equipment to communicate in full duplex over distances up to 20 km.

The MP-4325TRX module consists of a Distributed Feed Back (DFB) laser; Pin Photo-Diode (PIN) optical detector and a Wave Division Multiplexing (WDM) thru port configured with a user specified optical connector. The MP-4325TRX supports both the Transmit and Receive data lines and all serial connections are provided on the same DB-9 female connector. The MP-4325TRX supports data signals rates of up to 115 Kbaud. In addition to providing end-to-end optical link transmission, the MP-4325TRX can be employed as a protocol converter allowing a RS-232 signal transmitted from one end to be converted to RS-422 at the other end. This capability eliminates the need for additional protocol converting hardware thus minimizing system architecture support requirements.

**Information:** Call us toll-free at 888-868-8967 or email [info@b2bphotonics.com](mailto:info@b2bphotonics.com)

### Applications

- Remote Status Monitoring
- Data Communications
- Remote Multimedia Studio
- Long Distance Studio-to-Post Production Facility Links

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### Specifications

#### General

Digital Interface:	RS-232, RS-422
Baud:	Up to 115 Kbaud
Connector:	DB9 male
Optical Connector:	Diamond AVIM, FC/APC, User Specified
Laser Wavelength:	1310/1550 nm
Indicators & Alarms:	LED: DC Power Present LED: RX Optical Power Present LED: TX Optical Power Present Pin8 of J1: Open Collector TX Power Fault = Low Pin9 of J1: Open Collector RX Power Fault = Low
Storage Temperature:	-55° C to +85° C
Operating Temperature:	-40° C to +85° C
Vibration:	4 Hz to 50 Hz per MIL-STD-167 for mast mounted equipment
Shock:	9 Hammer Blows IAW MIL-S-901D, Type A, Grade A Class 1
Power Requirements:	8 to +15 Vdc (500 mA max)

