



ELCOMMTECH Corporation

## 033M-DX2-M1,2

### 2Ch. RS-232 Data Transceiver

#### Multimode

#### Single or Dual Fiber Operation

Elcommtech Corp.  
2620 Ocean Parkway, Suite 4H  
Brooklyn NY 11235  
(718)743-2869 Fax: (718)648-3642  
E-Mail: [sales@elcommtech.com](mailto:sales@elcommtech.com)  
Internet: <http://www.elcommtech.com>

#### Specifications:

##### Optical Performance

Light Source	Laser/850nm and/or LED/1300nm
Wavelength	850 and/or 1300nm
Optical Connector	ST or SC
Single mode - Core Diameter	8 - 10u
Optical Power Output	-3dBm @ 850nm -14dBm @ 1300nm
Receiver Sensitivity	-34dBm/2 fiber @ 850nm -36dBm/2 fiber @ 1300nm -32dBm/1 fiber @ 850nm -34dBm/1 fiber @ 1300nm
Operating Temperature	-30 °C to +70 °C
Dimensions	6.86"(172mm) x 4.95"(126mm) x x 1.4"(36mm)
Power Requirements	12V AC or DC @ 300mA; 24VAC @ 200mA

##### Data Interface

Data Interface	RS-232
Data Rate	Up to 200 kb/sec

**Introduction :**

The Elcommtech 033S-DX2-M1,2 forms part of a singlemode, single or dual fiber data fiber optic duplex transmission system. Using frequency modulation and operating as a single or dual window 1310/1550nm, single or dual fiber unit, the 033S-DX2-M1,2 provides the following facilities in a 172mm x 126mm x 36mm free standing module.

Optical Transmitter for: 2 x RS-232 Data Channels

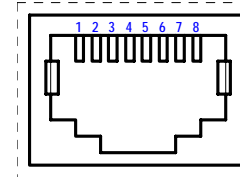
Optical Receiver for: 2 x RS-232 Data Channels

**Indicators :** All indicators are located on the top of the module.

Indicator		
Power	off	The unit is not powered
	green	Power connected
Data Link	off	No received optical signal present
	green	Optical signal received
Data Tx1	off	No data signal present at the optical transmitter Ch.1 input
	red	Data signal is present at the optical transmitter Ch.1 input
Data Rx1	off	No data signal present at the optical receiver Ch.1 output
	green	Data signal is present at the optical receiver Ch.1 output
Data Tx2	off	No data signal present at the optical transmitter Ch.2 input
	red	Data signal is present to the optical transmitter Ch.2 input
Data Rx2	off	No data signal present at the optical receiver Ch.2 output
	green	Data signal is available at the optical receiver Ch.2 output

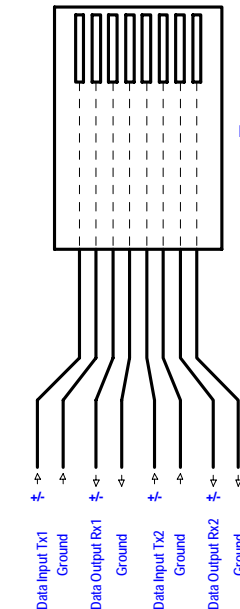
**Data Connector Pinouts**

Data Port - RJ45 Modular Receptacle

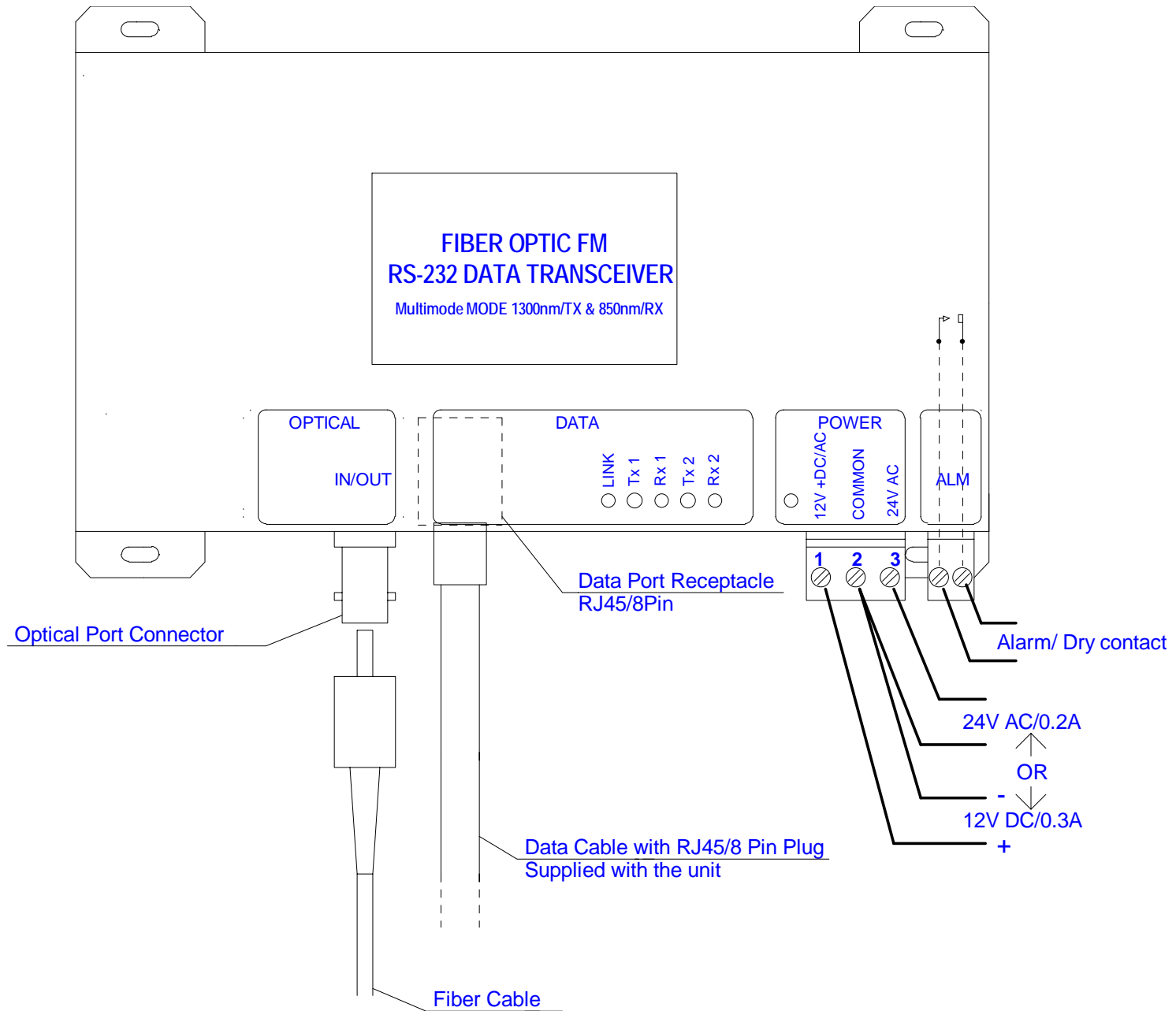


RS-232 Data Port Connector

RS-232	Tx1 (IN1)	Rx1 (OUT1)	Tx2 (IN2)	Rx2 (OUT2)
DATA SIGNAL +/-	1	3	5	7
GROUND	2	4	6	8



Data Cable - RJ45 Plug



033M-DX2-M1ST RS-232 Data Transceiver Connections