

# E1 Optical Modem

## Overview

MOD-E1 Optical Modem converts E1 electrical signal into optical data stream for transport over single mode or multimode fiber optic cables. At the opposite end of the fiber, the optical stream is converted back into electrical signals of the appropriate interface such as G.703 & V.35. This fiber optic modem



extends the transmission distance up to more than 100Km. The frame format of MOD-E1 is frame/unframe for E1, so it can be used to transmit E1 signal of frame video or unframe video. The modem is capable of transmitting synchronous data with external clock at speeds from 1 Kbps up to 2.048 Mbps (n\*64K), the modem can also be set to transmit asynchronous data at speeds from DC up to 64 Kbps. It also has V.54 diagnosis function and inside Bit error rate test equipment which is convenient for the users to carry the self-test.

## Features

- ◆ Frame format of E1: frame/unframe
- ◆ High performance laser equipments, with perfect optic/electric characteristic, guarantee the safety and stability of data transfer
- ◆ Data rate: up to 2M,N×64kbps (N=1~32)
- ◆ Support CRC-4 alarm function
- ◆ E1 interface features 75Ω and 120Ω two types, convenient for field connection
- ◆ The function that timeslots of remote device auto-follow local device settings can be enabled/disabled (only for this kind of devices)
- ◆ Adopting the AGC circuit
- ◆ Adopting the DLL technology to reduce the jitter
- ◆ Abundant loop back test functions, convenient for detection
- ◆ Internal power supply
- ◆ Can connect to V.35 Fiber Modem (only for products of our company)

## Specifications

1	Ethernet	Port
	Data rate:	N×64Kbps(N=1~32)
	Line code:	HDB3

ANDA Telecom Pvt. Ltd.

Registered office : E-36, Amar Colony, Lajpat Nagar- IV, New Delhi – 110024, INDIA

Phone : +91 11 41323629, +91 93 502 57173

E-mail : [Info@andatelecomindia.com](mailto:Info@andatelecomindia.com) URL : [www.andatelecomindia.com](http://www.andatelecomindia.com)

	Impedance:	75Ω	unbalanced/	120Ω	balanced
	Electric characteristic:	comply	with	ITU-T G.703	standard
	Connector	BNC	75Ω	RJ45	120Ω
2	Jitter tolerance:	comply	with	ITU-T G.742 and ITU-T G.823	standard
			Optical	port	
	Wavelength:	850nm/1300nm	(MM)	1310nm/1550nm	(SM)
	Distance:	5km	(MM)	Up to 120km	(SM)
3	Power Supply Voltage:	AC	220V	/	DC 48V
4		Power	consumption:		≤5W
5	Environment	Operating	temperature:	0°C	50°C
6	Storage	temperature:	40°C		70°C
7	Relative humidity:	5%	95%,	non	condensation
8			Weight		0.4Kg
9		Size:	212mm(W)×150mm(L)×38mm(H)		

**Typical**

**Application**



**Information**

MOD-E1	E1 Fiber Modem FC 220Vor 48V
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