

# MODEL7305

## Ethernet Optic Fiber Modem

### Features

- Rate  $N \times 64$ Kbit/s ( $N=1 \sim 32$ )
- Support the loopback of local analog/digital interface
- Support remote loopback function
- Support pseudo-random code test function
- 120km trunking -free transmission distance for single-mode optic fiber
- Capable to be communicated with FE1 Fiber Modem
- Available with complete line detection and alarm indications
- Available with independent structure and 19-inch Rack-mountable structure  
Rack-mountable structure can be inserted with 16 modules
- AC 220V and DC -48V inputs may be selected for fiber optic modems of both structures
- For Rack-mountable fiber optic modems, dual power supply heat backup is provided to ensure a high operating reliability



### Introduction

MODEL7305 Optic Fiber Modem is a high-performance optic modem developed by using a dedicated integrated circuit. It is to modulate a  $N \times 64$ K Ethernet data signal directly over single- or multi-mode optic fiber for a transmission via optic cable line. At another end of the optic cable, optical signal is demodulated into an

E1 data signal. E1 interface may be directly connected with the E1 interfaces of image and data terminals or the WAN ports of MUX, exchanger and router for a dedicated network setup or a LAN connection.

### Specification

#### Optic interface:

Line mode type: CMI

Line mode rate: 2.048Mbps

Operating wavelength: 850nm, 1310nm or 1550nm

Optic fiber connector: SC/FC

Applicable optic fiber: multi-mode, single-mode

Transmission distance: Single-mode: up to 120km  
Multi-mode: up to 2km

#### ETH interface:

Data Rate: 10/100Mbps auto-negotiation

Standard: Compatible with IEEE802.3

Type of connector: RJ45 connector

Full duplex auto-negotiation

#### Indicator lamps:

To indicate the operating status of power supply, data receiving/sending, loopback and random code test, code missing

alarm, out-of-frame alarm etc.

#### Structure:

Independent: 140mm (depth) x 210mm (width) x 42mm (height)

Rack-mountable: 19in 4.5U standard casing

#### Power supply:

Independent: 85V~264V AC input, 5V/2A output

-36V~-72V DC input, 5V/2A output

Rack-mountable: 150V~260V AC input, 5V/16A, 12V/1A output

-38V~-58V DC input, 5V/16A, 12V/1A output

Power consumption: 3W

Operating temperature: 0°C~50°C

Storage temperature: -20°C~80°C

Humidity: 5%~90% (free of condensate)

Warranty: 3 years

Approvals: FCC, CE, RoHS approvals

