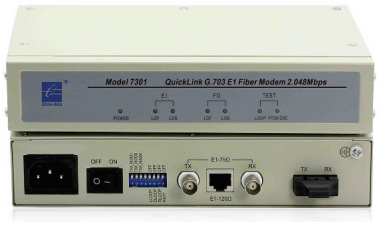
MODEL7301

E1 Optic Fiber Modem

Features

- Conforms to all relevant ITU series standards (ITU-T G.703 G.704 G.823)
- Framing or non-framing mode in option
- E1 time slot in arbitrary option
- Balanced 120Ω/non-balanced 75Ω interfaces automatic
- Support the loop back of local analog/digital interface
- Support remote loop back function (valid on under framing mode)
- Support pseudo-random code test function, providing convenience for the test of optic fiber line status 120km trunking -free transmission distance for single-mode optic fiber
- Capable to be communicated with V.35 fiber modem
- Available with complete line detection and alarm indications
- Available with independent structure and 19-inch frame-mounted structure (frame-mounted structure can be inserted with 16 modules);
- AC 220V and DC –48V inputs may be selected for fiber optic modems of both structures;
- For frame-mounted fiber optic modems, dual power supply heat backup is provided to ensure a Receiving level: 0~-43db



Introduction

MODEL7301 E1 Fiber Modem is a high-performance E1 fiber optic modem developed by using a dedicated integrated circuit. It is to modulate a framing or non-framing E1 data signal directly into 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 a framing or non-framing 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/PC

Applicable optic fiber: multi-mode, single-mode

Transmission distance: Single-mode:up to 120km

Multi-mode: up to 2km

E1 interface:

Standard：ITU-T G.703 G.704

Frame structure：framing CCS(PCM31)/ CAS(PCM30)

Rate： 2.048Mbps

Impedance: 75Ω, physical interface BNC;

120Ω, physical interface RJ45

Code:HDB3

Receiving level: 0~-43db

Indicator lamps:

To indicate the operating status of power supply, loopback and random code test, code missing alarm, out-of-frame alarm etc.

Structure:

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

Frame-mounted: 19in 4.5U standard casing

Power supply:

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

-36V～-72V DC input, 5V/2A output

Frame-mounted: 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

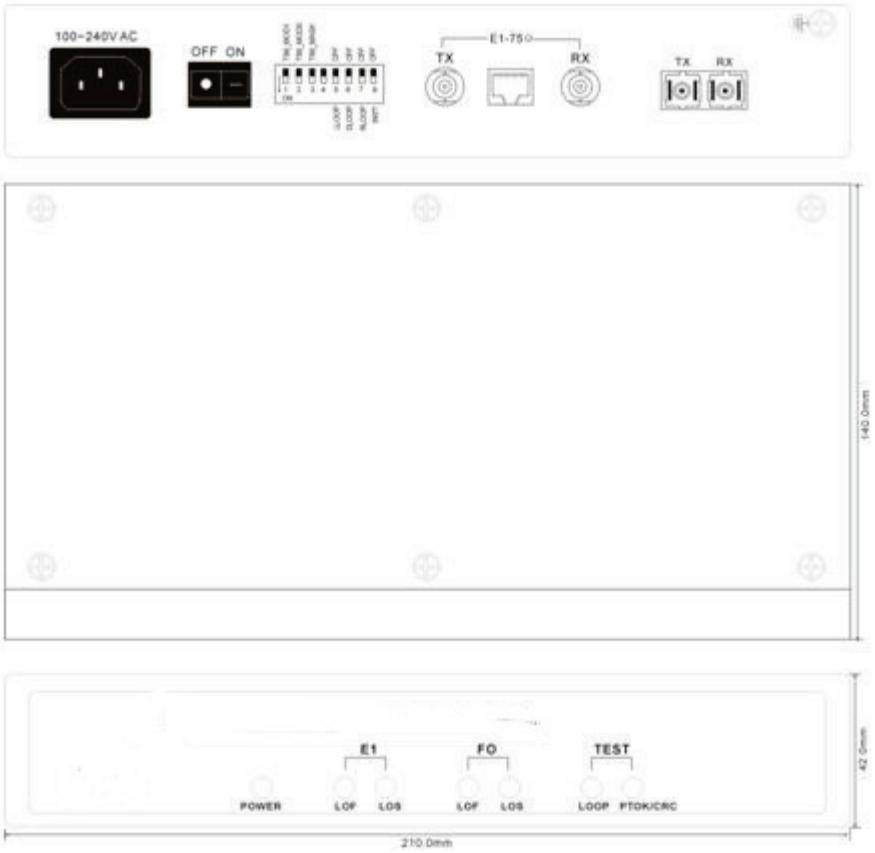
Storage temperature: -20°C～80°C

Humidity: 5%～90% (free of condensate)

Approvals: FCC, CE, RoHS approvals

Warranty: 3 years

Dimension



Packing List

1. MODEL7301 E1 Fiber Modem ×1
2. E1 Fiber Modem Operation Manual ×1
3. Power line(E1 Fiber Modem/AC)×1
4. A couple of BNC connectors