



MODEL7301

E1 Optic Fiber Modem User Manual

Introduction:

MODEL7301 Optical Optic 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 unframed for E1, so it can be used to transmit E1 signal of unframed video.

Packing List:

MODEL7301 is shipped with following items.

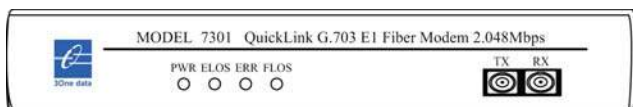
1. E1 Optic Fiber Modem MODEL7301 ×1
2. E1 Optic Fiber Modem Operation Manual ×1
3. Power line (E1 Optic Fiber Modem/AC)×1

Features:

1. Lucency transfer E1(G.703) protocol
2. Support optic fiber loop and E1 port loop
3. Choice ST, FC, SC connector
4. E1(G.703)interface support 120ohm(RJ-45) and 75ohm(BNC)
5. Multi-mode 2KM, signal-mode 20-100KM

Description on Installation and Panels:

1. The product front panel sketch map:



indicator define:

PWR Power indicator. Brightness if electrify.

ELOS Misstep alarm indicator light

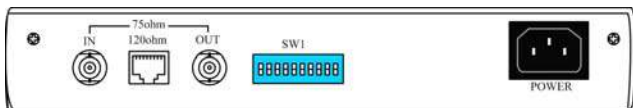
ERR E1line error alarm indicator light

FLOS Optic fiber out alarm indicator light.

TX Fiber output

RX Fiber input

2.The product back panel sketch map:



POWER 220VAC input

IN E1(75 Ω) input

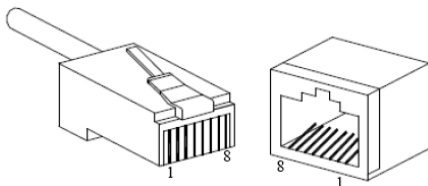
OUT E1(75 Ω) output

120 ohm(RJ45) E1(120 Ω) input and output

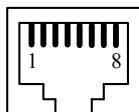
SW1 Function setup switch

Definition of Ethernet and V.35 interface:

1. E1 interface 120 Ω /RJ-45 define



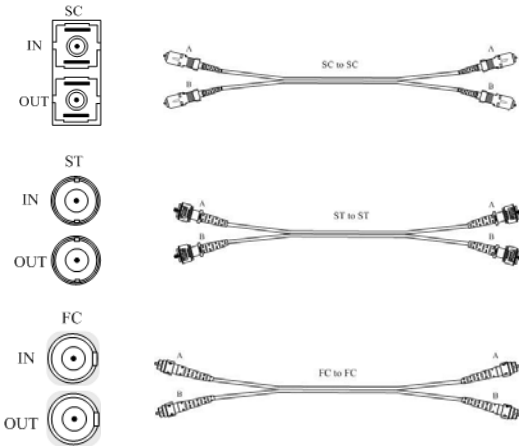
NO.	Function define	I/O
1	NC(null)	
2	RX+(receive data +)	input
3	RX-(receive data -)	input
4	GND(ground)	
5	GND(ground)	
6	TX+(send data +)	output
7	TX-(send data -)	output
8	NC(null)	



2. Optic Fiber interface

Optic fiber interface need use in pairs, TX port is fiber send side, connect another long-range light of interface fiber receive end RX ; RX port is fiber receive side , connect long-range same fiber send side :

Optic fibers spent both ends mark the label (the following picture show: A-A, B-B, can also mark another: A1-A2, B1-B2), in order to use.



DIP switch setup:

There have a range of DIP switch in the 7301 panel, Time Slot is used to choose E1 time slot, SW1 is used to function setup.

Function setup switch SW1

1. Impedance setup

NO.1	NO.2	NO.3	Impedance
ON	ON	ON	75 Ohm
OFF	OFF	OFF	120 Ohm

2. Loop setup

NO.4	OFF:non-loop	ON:optic interface loop
NO.5	OFF:non-loop	ON:E1 interface loop

Specifications:

Optic interface:

Line mode type: CMI

Line mode rate: 8.192Mbps

Operating wavelength: 850nm,1310nm or 1550nm

Optic fiber connector: multi-mode adopt ST connector

single-mode adopt FC/SC connector

Transmission distance: Single-mode: 20,40,60,80,100,120km

Multi-mode: 2km

E1 interface:

Standard: ITU-T G.703 G.704

Data rate: 2.048Mbps

Working: Asynchronism Transparent transfer

Operating mode: HDB3

Impedance: 75Ω, physical interface BNC;

120Ω, physical interface RJ45

Protection: 1500V electronagnetism isolate

Structure:

Independent: 227.4mm (depth) ×146.3mm (width) ×42.6mm (height)

Rack-mountable: 19in 4U standard casing

Power supply:

Input power:220VAC or 48VDC

Power consumption: 2W

Environment

Operating temperature: -25°C~70°C

Storage temperature: -40°C~85°C

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

Warranty: 5 years

Certifications:



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