

# MODEL7213S

## E1 to Optical Ethernet Interface Converter

### Features

1. Rate  $N \times 64 \text{Kbit/s}$  ( $N=1 \sim 32$ )
2. Support the loopback of local analog/digital interface
3. Support pseudo-random code test function
4. Supports conversion between:
  - (1) 10/100Base-TX and 100 Base-FX
  - (2) 10/100Base-TX and G.703
  - (3) 100base-FX and G.703
5. Available with independent structure and 19-inch Rack-mountable structure  
Rack-mountable structure can be inserted with 16 modules
6. AC 220V and DC -48V inputs may be selected for both structure
7. For Rack-mountable fiber optic modems, dual power supply heat backup is provided to ensure a high operating reliability



### Introduction

MODEL7213S is E1 to Optical Ethernet Interface Converter with fiber optic interface is a multifunction and high performance L2 switch which build in three port cross engine to realize the conversion between two Ethernet interface and E1 interface. The equipment supports the function used as Ethernet transceiver or Ethernet net bridge or fiber optic modem. As the extension of Ethernet, This converter may realize Ethernet interconnection at low cost via the E1 channel provided by existing network.

The optical Ethernet Interface Converter( also as Optical Ethernet Interface bridge) is a high performance, which accomplishes the converting between the 10/100M Ethernet port,the 100M Ethernet Optic Interface and E1 interface. As an extended device of the Ethernet, the optical Ethernet Interface Converter realizes interconnection of two Ethernet by using the E1 channel provided by exiting networks with the low-cost.

### Specification

Protocol: G.703, G.704, G.736, G.823, I.431  
IEEE802.3 10BASE-T

Circuit interface (E1):

Impedance: 75Ω, physical interface: BNC

Impedance: 120Ω, physical interface: RJ45

interface rate: f

raming:  $N \times 64 \text{Kbps}$  ( $N=0 \sim 32$ );

un-framing: 2.048Mbps

Coding: HDB3, Jitter tolerance in accordance with G.823 Output jitter < 0.05UI

Data interface (100BASE-T):

Impedance: 100Ω, physical interface: RJ45

Interface rate: 100Mbps

Coding: Manchester

Cable: 75Ωcoaxial-cable, UTP5 twisted pair

Transmission range: circuit interface: BNC: 600m; RJ45: 300m;  
Data interface: 100m

Optical line code type: CMI

Optical line code rate: 100Mbps

Wavelength: 850nm, 1310nm, 1550nm

Optical Connector: SC/PC

Optical type: multi mode , single mode

Transmission distance:

single mode: the max distance is 120Km

Multi mode: the max distance is 2Km

Indicator: indicating power, connection states of data and circuit interfaces, operation state, test state and trouble alarm.

Dimensions:

stand alone: 154mm (depth) × 190mm (width) × 37mm (height)

Rack mount: 19in standard 4.5U cabinet

**Power supply:**

stand alone: 160V~270V AC input, 5V/2A output  
 -40V~-60V DC input, 5V/2A output  
 rack mount: 150V~260V AC input, 5V/16A, 12V/1A output  
 -38V~-58V DC input, 5V/16A, 12V/1A output

Power dissipation: 3W

Operational temperature: 0° C ~ 50° C

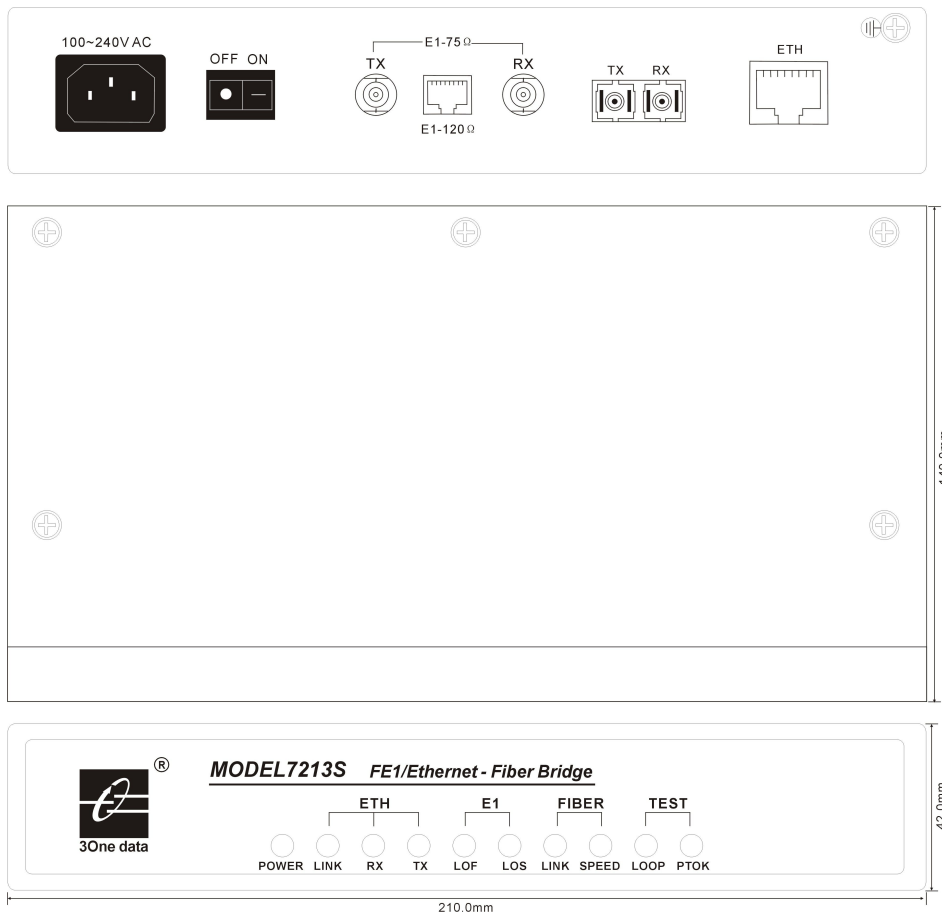
Storage temperature: -20° C ~ 80° C

Humidity: 5%~90% (no condensation)

**Warranty: 5 years**

**Approvals: FCC, CE, RoHS approvals**

**Dimension**



**Packing List**

1. MODEL7213S FE1/Ethernet-Fiber Bridge ×1
2. MODEL7213S User Manual ×1
3. Power line (Ethernet Fiber Modem/AC) ×1