



4ETH Physical Isolation Fiber Modem(Bandwidth 2M)

OP-FM-4FE-P



Shenzhen Optostar Optoelectronics Co., Ltd

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Overview

OP-FM-4FE-P is based on FPGA. Multiplex 4Channel 10/100Base-T Ethernet interface to 1Channel Optical Fiber interface to provide users with Ethernet access at the rate of 1984K. It is widely used in finance, securities and security departments which need to be provided two different networks, and both on a physical network can be completely separated. For example, the financial system business network, internal office network and business network can't be linked together. This interface multiplexer can solve this problem.

Product Features

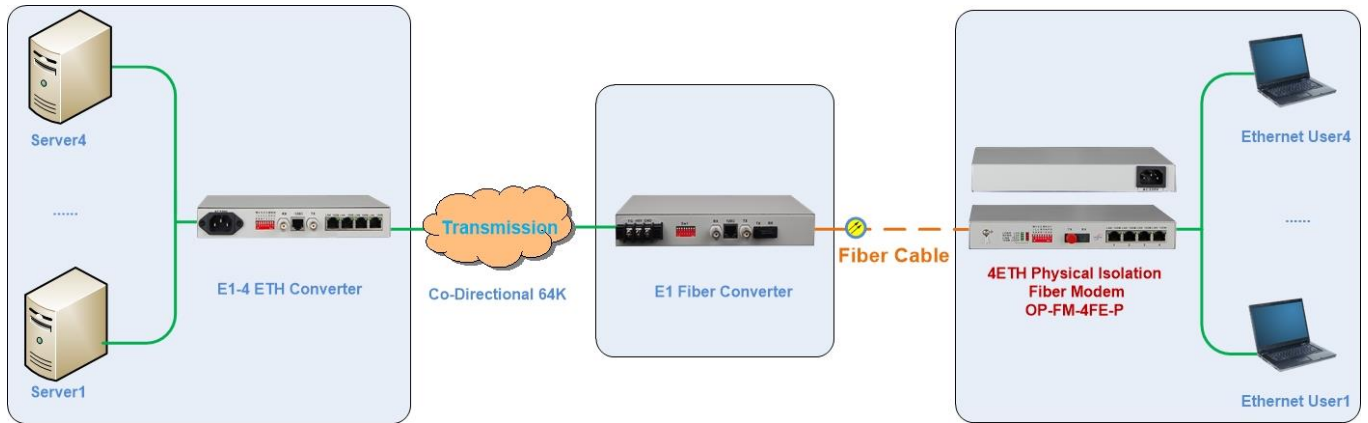
- Based on self -copyright IC
- Inter-set dynamic Ethernet MAC address (4,096) with local data frame filtering function
- 4 Channel Ethernet rate is 1984Kbps, set up the first channel rate, the second channel Ethernet rate automatic allocation
- The local device can forced the remote device rate follow it
- The Ethernet interface supports jumbo frames (2036 Bytes)
- Ethernet interface supports 10M/100M, half/full duplex auto- Negotiation
- Ethernet interface supports AUTO-MDIX (crossed line and straightly connected line self-adaptable)
- Have Ethernet monitor self-reset function, the equipment will not dead
- Support SNMP Network Management;
- Can form the structure: 4ETH Physical Isolation+E1 (A) — — -E1 Optical Fiber Modem(B) — — -this device (C)

Technical Parameter

OP-FM-4FE-P 4 ETH Physical Isolation Fiber Modem	
Optical interface	
Multi-mode Fiber	
Diameter of fiber core	50/125um, 62.5/125um
Transmission distance	5Km @ 62.5 / 125um single mode fiber, attenuation (3dbm/km)Wave Length: 820nm
Transmitting power	-12dBm (Min) ~-9dBm (Max)
Receiver sensitivity	-28dBm (Min)
Link budget	16dBm
Connector	SC/FC
Single-mode Fiber	
Diameter of fiber core	8/125um, 9/125um
Transmission distance	40Km @ 9 / 125um single mode fiber, attenuation (0.35dbm/km)
Wave Length	1310nm
Transmitting power	-9dBm (Min) ~-8dBm (Max)
Receiver sensitivity	-27dBm (Min)
Link budget	18dBm
Connector	SC/FC
Ethernet interface(100/100M)	
Interface rate	10/100 Mbps, half/full duplex auto-negotiation
Interface Standard	Compatible with IEEE 802.3, IEEE 802.1Q (VLAN)
MAC Address Capability	4096
Connector	RJ45, support Auto-MDIX
Dimension	
Product Size	216X140X31mm(WXDXH)
Simple packaging	274X193X84mm(WXDXH)
Piece Weight	1.2KG
Operation Environment	
Operating temperature	0°C~50°C
Storing temperature	-40°C~+70°C
Relative humidity	95 %
No causticity and solvent, dust free, and no strong magnetic interference.	
Power	

Voltage	AC180V ~ 260V; DC -48V; DC +24V
Consumption	≤5W
Warranty	2 Year Warranty, Life-time Maintenance

Application



Order Information

Model	Description
OP-FM-4FE-P	4 ETH Physical Isolation Fiber Modem

Package include

No	Package List
1	4 ETH Physical Isolation Fiber Modem
2	User Guide
3	Warranty Card

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by OPTOSTAR before they become applicable to any particular order or contract. In accordance with the OPTOSTAR policy of continuous improvement specifications may change without notice.

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