

FOM-120/240 Serial PDH Multiplexer

8
E1

2
Fiber

4
Ethernet

2
Power



Product Overview

FOM-120 serial and FOM-240 Serial - 4/8E1 PDH is the point to point optical transmission equipment and developed in VLSI basis. This equipment realizes 4/8E1 circuit and one 100M wire speed multiplexing and optical transmission by a concise single board. Perfect alarm monitor function, high integration, low power consumption, stable performance, easy to use.

Main Features

- 1+1 optical circuit standby with rate of 150Mbps.
- HDB3 E1 line code. E1 jitter tolerance, transfer characteristics, output jitter is fully complied with ITU-T G.703, G.823, G.742.
- 4 Ethernet ports fully support VLAN, auto-negotiation, full/half duplex, auto adapt 10/100M.
- Perfect alarm function. Be able to supervise the remote equipment status.
- Order wire phone function by normal phone.
- Support console RS232 or SNMP&WEB network management (optional)
- Support 2 RS232 data channel with the rate of 115.2Kbps.
- Single board design, 1U, 19inch.
- 1+1 standby power supply. The equipment can be with 2 AC220V, 2 DC-48V or one AC220V and one DC-48V.

Specifications

Technical Specification:

Optical Port

- Line rate: 155Mbps
- Line code: Scrambled NRZ
- Wavelength: 1310nm(typical) 1550nm(optional)
- Optical source: LD (input: -8dBm ~ -34dBm)
(output: -15dBm ~ -8dBm)

Name	Option	Default
Transmission mode	Single-mode/Multi-mode	Single-mode
Module type	Single-fiber/Dual-fiber	Dual-fiber
Interface type	SC/FC/ST	SC
Transmission distance	2KM/40KM/60KM/120KM	40KM

E1 interface

- Rate: 2.048Mbps, ± 50 ppm tolerance available
- Impedance: 75Ω unbalanced or 120Ω balanced optional
- HDB3 coding: comply with ITU-T G.703
- Jitter input tolerance comply with ITU-T G. 823
- Jitter transfer character complies with ITU-T G.742

Ethernet interface

- Compliant with: IEEE802.3
- Rate: 10/100Mbps Full/Half duplex auto-negotiation Physical connector: RJ45
- MDI/MDI-x auto-negotiation
- Ethernet port: 4 ports
- MAC address table capability: 1024 k
- MAC address table aging time: Very short
- The minimum frame length: 64 bytes
- The maximum frame length: 1916 bytes
- Support VLAN

Power

- Input power voltage: DC-48V, -36V~ -72V (DC) tolerance
- Input power voltage: AC220V, 165V~264V tolerance
- Power consumption: less than 10W

Working environment

- Temperature: -10°C — 60°C
- Humidity: 95%, non condensing

Dimension and weight

- Length \times Height \times Width: 483mm \times 44mm \times 200mm
- Weight: 2.5kg

Information Order

4E1 PDH Multiplexer

FOM-120	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC Power
FOM-120/8	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, DC Power
FOM-120/E	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC+DC Power
FOM-120/P	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC Power
FOM-120/8P	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC Power
FOM-120/EP	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+DC Power
FOM-120/EAP	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+AC Power
FOM-120/EDP	4E1 PDH Multiplexer 4E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC+DC Power
FOM-120B	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC Power
FOM-120B/8	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, DC Power
FOM-120B/E	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC+DC Power
FOM-120B/P	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC Power
FOM-120B/8P	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC Power
FOM-120B/EP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+DC Power
FOM-120B/EAP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+AC Power
FOM-120B/EDP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC+DC Power
FOM-120+	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, SNMP&WEB, AC Power

FOM-120+/8	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, SNMP&WEB, DC Power
FOM-120+/E	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, SNMP&WEB, AC+DC Power
FOM-120+/P	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, AC Power
FOM-120+/8P	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, DC Power
FOM-120+/EP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, AC+DC Power
FOM-120+/EAP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, AC+AC Power
FOM-120+/EDP	4E1 + 4FE PDH Multiplexer 4E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, DC + DC Power
8E1 PDH Multiplexer	
FOM-240	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC Power
FOM-240/8	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, DC Power
FOM-240/E	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC+DC Power
FOM-240/P	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC Power
FOM-240/8P	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC Power
FOM-240/EP	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+DC Power
FOM-240/EAP	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC+AC Power
FOM-240/EDP	8E1 PDH Multiplexer 8E1 Unframe, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, DC+DC Power
FOM-240B	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC Power
FOM-240B/8	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, DC Power

FOM-240B/E	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, Console, AC+DC Power
FOM-240B/P	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, Console, AC Power
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FOM-240+	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, SNMP&WEB, AC Power
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FOM-240+/E	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex, Single-mode 40km, SNMP&WEB, AC+DC Power
FOM-240+/P	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, AC Power
FOM-240+/8P	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, DC Power
FOM-240+/EP	8E1 + 4FE PDH Multiplexer 8E1 Unframe, 4 x 10/100 Ethernet ports support VLAN, Optical Interface is SC/PC Duplex (1+1), Single-mode 40km, SNMP&WEB, AC+DC Power
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**Due to continuous improvement, all products specifications are subject to change without further notice.
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