Framed E1 G.703/G.704 fiber modem

➢ Features

- Comply with all relevant ITU series standards (ITU-T G.703 G.704 G.823);
- Transmit one E1 channel;
- Framing or non-framing mode optional;
- E1 time slot in arbitrary option;
- Balanced 120Ω/non-balanced 75Ω interfaces automatic;
- Support loopback of local analog and digital interfaces;
- 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;
- Support Maximum 120km transmission distance through single-mode optic fiber;
- Support Maximum 2km transmission distance through multi-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);
- LED indicate local status and remote status for easy troubleshooting;
- Support DIP switch management;
- Support DC-48V or AC 220V power supply optional;
- Support 0-50°C wide operating temperature range;
- Warranty:3years

➢ Introduction

UPCOM HPO-FE1 is a high-performance E1 optical fiber modem developed with a dedicated integrated circuit. on one side, the framed or unframed E1 signal is converted into an optical signal through a single-mode or multi-mode optical fiber, and on the other side, the optical fiber signal is re-converted into an E1 signal. Multi-mode fiber can reach up to 2km, and the maximum transmission distance of single-mode fiber is 120km.

The E1 port can be directly connected to the E1 port of the data terminal or the WAN port of the multiplexer, switch, router, and can form a private network or conduct a wide area network connection.

The E1 interface complies with ITU-T G.703 and G.704 protocols, supports BNC 75Ω and RJ45 120Ω connection modes, supports Framed and Unframed structures, the user can choose either E1 interface according to the connected environment, Provide maximum flexibility for network applications.
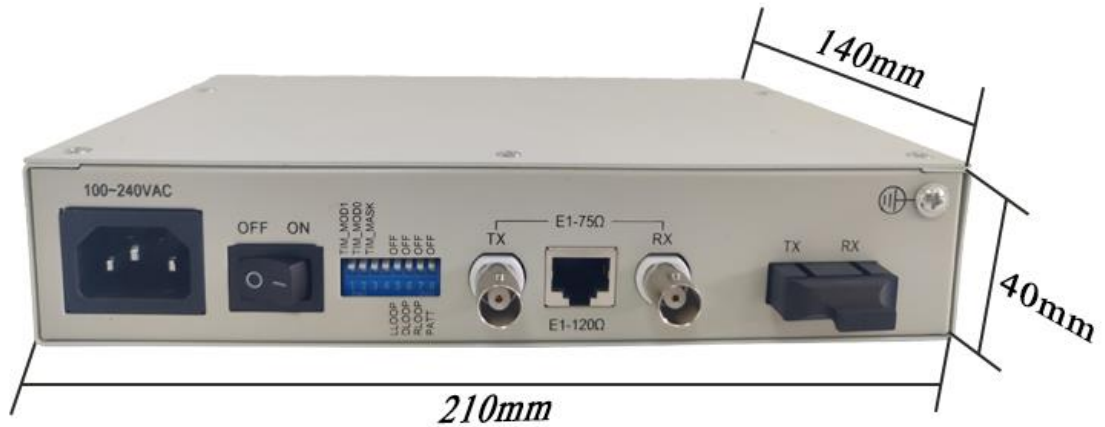
FE1 fiber-optic modems support looping back of local analog and digital interfaces, as well as remote looping back (only under Frame mode), and provide pseudo-random code detection, very convenient for device and line detection. The card-type FE1 fiber optic modem can be inserted into a 4.5U chassis(16slot). Through advanced SNMP functions, network engineers can manage any converter module from anywhere on the network and detect any link loss.

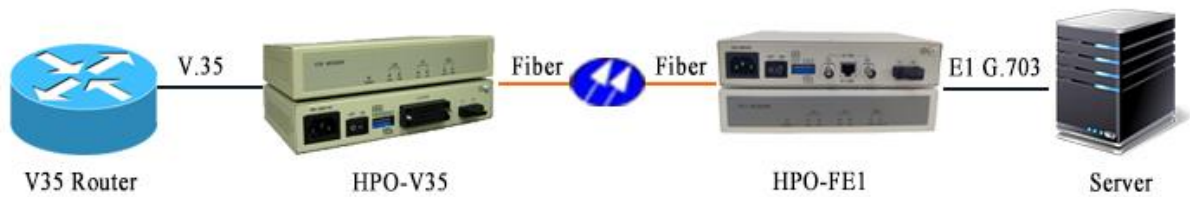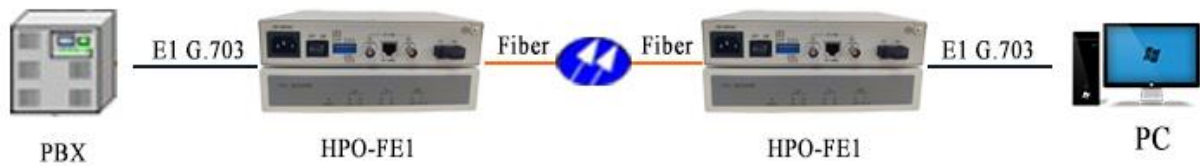FE1 fiber modem can be interconnected with V35 fiber modem.

➤ Specification

Optic interface	
Line mode type	CMI
Operating wavelength	850nm,1310nm or 1550nm
Optic fiber connector	SC/FC
Optic fiber mode	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 CS (PCM31) /CAS (PCM30)
Rate	N×64Kbps(N=1~31) or 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.
Physical	
Dimension	140mm(D)*40mm(H)*210mm(W) stand-alone type
	19inch, 4.5U standard casing, card-type
Weight	1Kg
Power supply	DC-48V or AC96 -260V
Power Interface	DC power terminal/AC socket
Power consumption	3W
Operating temperature	0-50ºC
Storage temperature	-20-85ºC
Humidity	5%~95% (non-condensing)
Warranty	3years

➢ Dimension

➢ Application

➢ Ordering Information

Model NO.	Description
HPO-FE1-00	Framed E1 G.703/G.704 fiber modem, 75ohm&120ohm, 85~264VAC
HPO-FE1-01	Framed E1 G.703/G.704 fiber modem, 75ohm&120ohm, -48 VDC

➢ Packing List

- Framed E1 G.703/G.704 fiber modem *1
- User manual * 1
- Certificate of quality * 1
- Power cord*1
- Two plugs for Coaxial Cable
- Warranty card * 1