

# Synergy Telecom P Ltd.

## Fast Optical Modem



### **Detailed description :**

#### **Product Features:**

- E1 G.703 Interface
- E1 Signal Jitter/Wander Attenuation
- E1 AMI/HDB3 Codes
- Local Loopback and Remote Loopback
- Automatic Alarm Signaling on both Line and Fiber
- 18 dB Typical Optical Link Margin
- Multiple Link status Indicators

**Product Description:**

The FHC-4030 is designed to provide fiber connection for E1 equipment. It includes a E1 Line Interface Unit that provides E1 line driver/receiver, data/clock recovery, jitter attenuation, AMI/B8ZS/HDB3 encoding, AIS (Alarm Indication Signal) detection, BPV (Bi-Polar Violation) detection, and loop back mode. It offers two modes of Loopback for testing the connection integrity. In the Local Loopback mode, the modem loops back the received E1 signal. In the Remote Loopback mode, the modem sends loopback codes to cause the far-end modem to loop back the received optical data.

**Product Specifications:**

## Electrical

Interface	E1 G.703 Interface
Data Rate	2.048 Mbps 50 ppm
Impedance	75 Ohm balanced 120 Ohm balanced
Connector	BNC-female, unbalanced DB-15 female, balanced
Line Code	AMI/B8ZS

## Optical

Wave Length	802 nm/1300 nm multimode 1300 nm single mode
Link Margin	18dBm (min.) multimode @ 62.5mm 15dBm (min.) single mode @ 9mm
Connector	ST/FC

**Configurations:**

The VLM-100 includes a dipswitch that provides the following configuration selections:

DSX-1 Cable Length	5 different impedance selections to match DSX-1 cable at length from 0 to 655 feet
E1 Line Coding Format	AMI/HDB3 for VLM-100E1
Local Loop Back	Enabling Local Loopback Mode
Remote Loop Back	Enabling Remote Loopback Mode
T1/E1 Line AIS	Enabling the alarm signal to E1 line
Fiber Link AIS	Enabling the Alarm Signal to the Fiber

## Physical

Dimensions	-8.9(L)in x 6.5(W)in x 1.6(H)in
------------	---------------------------------

System

Power Supply	-9 to 12 VDC @ 300 mA
Humidity	-5% to 95% non-condensing
Temperature	-0°C to 60°C - Operating
Range	-10°C to 85°C - Storage

Order Info :

FHC-4030G: E1 Fiber Optic Modem

13-15 RPS flats, E-block, Vikaspuri, N Delhi-110018, India  
Phone-91 11 28533349, Mobile-91 98101 38894, Fax -91 11 2853 1435,  
E-mail : [pradeep@rfconnectorhouse.com](mailto:pradeep@rfconnectorhouse.com), Website : <http://www.rfconnector.info/>