



S.G. INTERNATIONAL GROUP H.K. LIMITED

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➤ Optical Fiber Modem



SG-G01 E1 Fiber Optic Modem

SG-G01 E1 Fiber Optic Modem is designed to provide an economical solution for extending the transmission distance and improving the transmission reliability of E1 traffic. It converts G.703 electrical signal into optical data stream for transport over single mode or multimode fiber optic cables. At the opposite end of the fiber, the optical stream is converted back into electrical signals of the appropriate interface such as G.703 & V.35. This fiber optic modem is developed for long distance and secure data link between data communication devices like routers, multiplexers and ATM/frame relay devices etc.

Features

- Provides fiber link for E1(G.703) applications.
- Operates at 32 selectable data rates from 64 kbps to 2048 kbps.
- Local and remote loop back test for diagnostics.
- Supports E1 balanced and unbalanced interfaces.
- Built-in PRBS(Pseudo Random Binary Sequence) generator for testing end to end connectivity.
- Centralized network management with the SG NMS.



Technical Specification

◆ Electrical (E1 interface)

Bit rate: 2.048Mbps ± 50ppm

Line code: HDB3

Nominal impedance: 75 Ω unbalanced / 120 Ω balanced

Jitter character: ITU-T G.742,G.823 compliant

◆ Optical

Bit rate: 4.096 Mbit/s Line code: 1B1H Optical source: LD Typical output power: ≥ -9dBm

Receiver sensitivity: ≤ -40dBm (BER ≤ 10⁻¹¹) Wavelength: 1310 / 1550nm Optical connector: FC/SC

◆ Power supply

Power input: AC/DC optional Power consumption: ≤ 5W

◆ Environment

Temperature: -5°C ~ 40°C for operation

-20°C ~ 60°C for storage & transport

Humidity: 10% ~ 90% RH non-condensing

◆ Physical

Standalone compact (19"/2)

Dimension: 200mm(width) × 43.5mm(height) × 150mm(depth)

Weight: 1.0 kg

Rack type: EIA 19"

Rack Mount (19")

Dimension: 483mm(width) × 266mm(height) × 225mm(depth)

Weight: 12 kg (full deploy) Rack Type: EIA 19"

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