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➤ Optical Fiber Modem



SG-V01 V.35 Fiber Optic Modem

SG-V01 V.35 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 V.35 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 V.35 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.
- Three clocking modes are provided for maximum flexibility: Internal clock, Line clock, and External clock.

Technical Specification

◆ Electrical (V.35 interface)

Bit rate: $N \times 64\text{kbps}$ ($N=1 \sim 32$)

Clock mode: Internal clock / Line clock / External clock(optional)

Interface Type: V.35 / DCE

Electrical character: V.35 compliant

Connector: ISO2593

◆ Optical

Bit rate: 16.896 Mbit/s Line code: 5B6B Optical source: LD Typical output power: $\geq -9\text{dBm}$

Receiver sensitivity: $\leq -40\text{dBm}$ (BER $\leq 10^{-11}$) Wavelength: 1310 / 1550nm Optical connector: FC/SC

◆ Power supply

Power input: AC/DC optional Power consumption: $\leq 5\text{W}$

◆ Environment

Temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$ for operation

$-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$ for storage & transport

Humidity: 10% ~ 90% RH non-condensing

◆ Physical

Standalone compact (19"/2)

Dimension: 200mm(width) \times 43.5mm(height) \times 150mm(depth) Weight: 1.0 kg Rack type: EIA 19"

◆ Rack Mount (19")

Dimension: 483mm(width) \times 266mm(height) \times 225mm(depth)

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

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