S.G. INTERNATIONAL GROUP H.K. LIMITED
SHENZHEN SHUGUANG ELECTRONICS CO., LTD

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➢ PDH Optical Terminal

SG-C08 8E1 PDH Optical Multiplexer

SG-C08 Optical multiplexer is a low cost and high performance optical line transmission equipment, which combines four ITU-T G.703 compliant standard electrical E1, 2.048Mbps signals into an optical data stream for transport over fiber optic cables. Several transmitter options for different cable types and wave-lengths are available. This optical line equipment is developed for transmission in access networks, corporate networks, dedicated networks for railway and power companies etc.

Features

- Advanced and compact design that performs E1 multiplexing & de-multiplexing and provides a 100Mbit/s optical interface in a single unit.
- Built-in AC/DC or DC/DC converter and supervisory microprocessor
- Digital clock data recovery for E1 signal
- Provides visible and audible alarm indication
- Low power consumption
- Order wire channel for end to end installation and maintenance
- Auxilary data channel in optical line code
- Centralized network management with the Topone NMS
- High reliability
- Flexible installation in various mechanical constructions.
- Local and remote loop back test for diagnostics

Technical Specification

◆ Electrical (E1 interface)
Channel capacity: 8 channels
Bit rate: 2.048Mbps±50ppm
Line code: HDB3
Nominal impedance: 75Ω unbalanced / 120Ω balanced
Jitter character: ITU-T G.742,G.823 compliant

◆ Optical
Bit rate: 100 Mbit/s Line code: 4B5B Optical source: LD Transmitter power: ≥－9dBm
Receiver Type: PINFET Receiver sensitivity: ≤－38dBm（BER≤10-11）
Wavelength: 1310 / 1550nm Optical connector: FC/SC

◆ Power supply
Power input: AC/DC optional Power consumption: ≤10W

◆ Environment
Temperature: －5℃～＋40℃ for operation －20℃～＋60℃ for storage & transport
Humidity: 10%～90% RH non-condensing

◆ Physical
Standalone (19")
Dimension: 440mm(width)×43.5mm(height)×150mm(depth)
Weight: 1.2 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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