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> PDH Optical Terminal



SG-C16 16E1 PDH Optical Multiplexer

SG-C16 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
- Auxiliary 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: 16 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°C~+40°C for operation -20°C~+60°C 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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