



# S.G. INTERNATIONAL GROUP H.K. LIMITED

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### > PDH Optical Terminal



### SG-C04E 4E1 PDH Optical Multiplexer

SG-C04E Compact 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 16.896Mbit/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.

#### Technical Specification

##### ◆ Electrical (E1 interface)

Channel capacity: 4 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: 16.896 Mbit/s    Line code: 1B1H    Optical source: LD    Transmitter power: ≥-9dBm

Receiver Type: PINFET    Receiver sensitivity: ≤-40dBm (BER≤10<sup>-11</sup>)

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 compact (19"/2)

Dimension: 220mm(width)×43.5mm(height)×150mm(depth)

Weight: 1.0 kg    Rack type: EIA 19"    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"