

OP-nE1*4GE*256VO

SNMP Managed Fiber Multiplexers for E1 and Ethernet and Voice

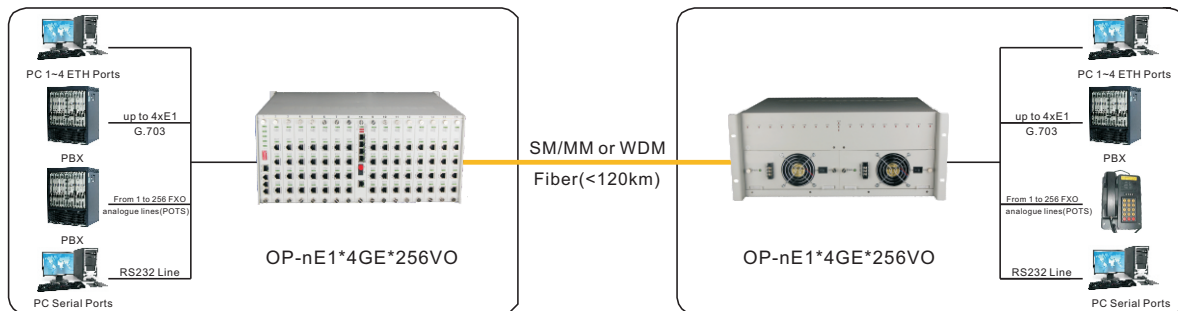


- Up to 256 Voice and E1 links and full bandwidth 1000 Mbps Ethernet traffic multiplexed into fiber optic uplink
- Provide E1 Up to 1-16(add one 16 Voice card, subtracting one E1)
- Convenient expansion, only increase the card, convenient maintenance, only replacement the card.
- Single-mode, multimode, single-mode over single fiber
- 1-256 Channel voice access, supports caller ID feature and reverse polarity billing functions
- Provide 4 expansion interface, can access 4 channel of RS232/422/485
- Support E1 loopback and fiber loopback function
- Range of up to 100 km
- -48VDC/110/220VAC flexible redundant power inputs

Overview

4U 19 inch Rack frame, total of 16 16*Voice card plus one fiber card provides 4 Gigabit Ethernet and 1+1 optical interface ,16-256 Voice Optical Multiplexer Series provides a simple and cost-effective solution for transporting multiple E1 links, as well as 1000M Ethernet, for distances up to 100 kilometers.

Typical Applications



In private networks, 256 Voice Optical Multiplexer shares services such as Voice E1, Ethernet, in P2P topologies over fiber. 256 Voice Optical Multiplexer establishes TDM and Ethernet connectivity between the remote branches and headquarters for educational, financial, military sectors.

Specifications

Fiber Interface(Main and backup)

- Number of Ports: 2(1+1)
- Optical wavelength :
850/1310nm for multi-mode fiber,
1310/1550nm for single-mode fiber
- Transmission distance: 20-100Km
- Fiber Optic Interface Type: FC/SC/ST/LC
- Data Rate: 1.5 Gb/s(GRANCOM proprietary)
- Typical output power
single mode 1310/1550nm: ≥-8dBm
multi-mode 850nm: ≥-18dBm
multi-mode 1310nm: ≥-25dBm
- Receiver Sensitivity: ≤-36dBm

E1 Interface

- Number of Ports: up to 1~16
- Interface Standard: G.703 G.704
- Data Rate and Line Code: 2.048Mb/s HDB3
- Line Impedance and Connector
120 Ω, balanced, RJ-45
75Ω, unbalanced, BNC
- Nominal Pulse Width: 244 ns
- Jitter Performance: Comply with ITU-T G.823 recommendation"
- Test Function: Support E1 loopback and BERT function

Gigabit Ethernet Interface

- Number of Ports: 4
- Interface Type: 10/100/1000 Mbps, auto-negotiation, full/halfduplex, flowcontrol, MDI/MDXcrossover
- Compliance: IEEE 802.3z, 802.3ab and 802.1p&q
- Max Frame Size: 10240
- Number of VLANs: 1-4094 with 64 VLAN support
- Port-Based VLAN: Untagged, tagged, transparent or double tagged
- Connector and LAN Table: RJ-45; 1KMAC
- Electrical Cable Type: Cat.5

Voice(FXS/FXO) Interface

- Number of Ports: up to 256
- Impedance: 200Ω+680Ω//0.1uF
- Frequency character: 300-3400Hz(-0.6-+3dB)
- Weighted noise: ≤-65dBmop
- Interface loop resistance: ≤1800Ω
- Compliance : ITU G.711 A-Law

Management Ports

- Console Port
Interface standard: RS-232
Connector: RJ-45 to DB9
Data rate: 9.6 kbps
- Out-of-Band Ethernet Management
Port Interface: 10/100Base T
Connector: RJ-45
- SNMP: SNMP(V1/V2/V3)

Environmental Limits

- Operating Temperature: 0 to 50°C
- Storage Temperature: -40 to 85°C
- Ambient Relative Humidity: 5 to 95% (non-condensing)

Power Requirements

- Input Voltage:
AC:100-240VAC(±10%),50/60Hz
DC:-48VDC(36-72VDC)

- Power Consumption: <200 watts

Physical Characteristics

- Housing: Metal
- Weight: 6kg
- Dimensions: 433 x 365 x 195mm (Standard 4U and 19-inch rackmount size)

Ordering Information

Type	Function Description
OP-nE1*4GE*256VO-AD	nE1, 1000M Ethernt and 256 Voice over Fiber Optical Multiplexer with SNMP; 100~240VAC and 36~72VDC
2OP-nE1*4GE*256VO-AD	nE1, 1000M Ethernt and 256 Voice over Dual Fiber Optical Multiplexer with SNMP; 100~240VAC and 36~72VDC