

Modular Fiber Modem (4 V.35 fiber modem)



Spot-light:

OP-nE1+nV.35+nEth is a modular designed fiber optical modem realizing multi-service transmission over fiber optical. It provides 4 slots, optional cards are 10/100M Ethernet(2M bandwidth), V.35 data port and E1.

Description:

There are four slots, each of which can be inserted with a piece of interface card. Currently, the available interface cards include: E1, V.35 and Ethernet port interface cards. **It can be configured as 4*V.35 fiber modem with 04 pcs V.35 interface card.**

The optical interface offers hot backup function. Users can choose and buy 1+0 or 1+1 optical interface equipments according to their requirements.

All media converters are available with either multi-mode or single-mode optical transceivers and with connectors for SC or FC. In single mode they are available in up to 120 km versions reach, which will provide the ability to transmit and receive data using only a single optical fiber pair. WDM single fiber version allows save on fiber costs - instead of fiber pair, it is using just 1 fiber, by means of WDM technology.

Features:

- Y Maximum capacity of 4E1
- Y Flexible structure and modular design, easy to configure
- Y 1+0 fiber optical or, 1+1 fiber optical protection

- Support single/dual, single/multi-mode fiber, with different distance
- Various user interface modules: E1, Ethernet, V.35
- Each V.35 and Ethernet has rate of $N \times 64 \text{ kbps}$ ($N=1 \sim 32$)
- AC or DC power supply optional
- Support several kinds of clock modes: Internal, recovery clock, external clock.
- Provides visible and audible alarm LED indications
- Local & remote loop-back controls for diagnostics and trouble shooting
- DIP Switch management
- High reliability

Specifications

V.35 interface

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

Available with CTS/RTS (Hardware) flow control function

Type of connector: M34 (with DB25 to M34 adapter cable)

Operating mode: DCE/DTE

Clock modes: Internal, External

E1 Interface

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

Interface: $2.048 \text{ Mbit/s} \pm 50 \text{ ppm}$

Impedance: 75Ω BNC (unbalanced) , 120Ω RJ-48 (balanced)

Interface standard: G.703 and G.704

Ethernet Interface

10/100M, half-full duplex, auto-sensing

Rate: Maximum 2.048 Mbps

Support IEEE802.3, IEEE802.1Q (VLAN)

RJ45 connector

Optical interface

Line mode type: NRZ

Optical wavelength: 850/1310nm for multi-mode fiber, 1310/1550nm for single-mode fiber.

Optical interface: SC/FC(Optional)

Transceiver module: $> -6 \text{ dBm}$

Optical receiver sensitivity: $< -36 \text{ (BER} < 10)$

Receive range: $> -30 \text{ dB}$

Transmission distance: multi-mode 2 Km, single-mode 20/40 /60/ 80 /120 Km, **WDM** available for different distances

Architecture:

19'', 1U, rack mountable

Power supply:

DC: -48V (-36 to -72V);

AC: 180 to 260 VAC ; 47 ~ 63Hz

Power Interface: DC power terminal/AC socket

Power Consumption: ≤ 10 W

Other Specification

Operation temperature: 0°C ~ 50°C

Storage temperature: -20°C ~ 80°C

Humidity: 0~90%(no condensation)

Application:

