

**PRODIGY MULTIPLEXER**



**PD-SDH-MUX**

**Modula Multi-Service Fiber Multiplexer**

**OVERVIEW**

- This device is modular structure point-to-point optical transmission equipment with LCD display, uses the FPGA chips and easy to upgrade. The Main board provide 2 AUX port which is for transmitting other data such as 2\* RS232.
- 4 slots of tributary with variant plug-in modules which included 4xE1 channels module, 4x Nx64K V.35 module. The maximum capacity will be up 4 plug-in modules which could be combinations with above modules. The high flexibility, performance, is the best solution for voice/data/video services in existed market.

**PRODUCT PHOTO**



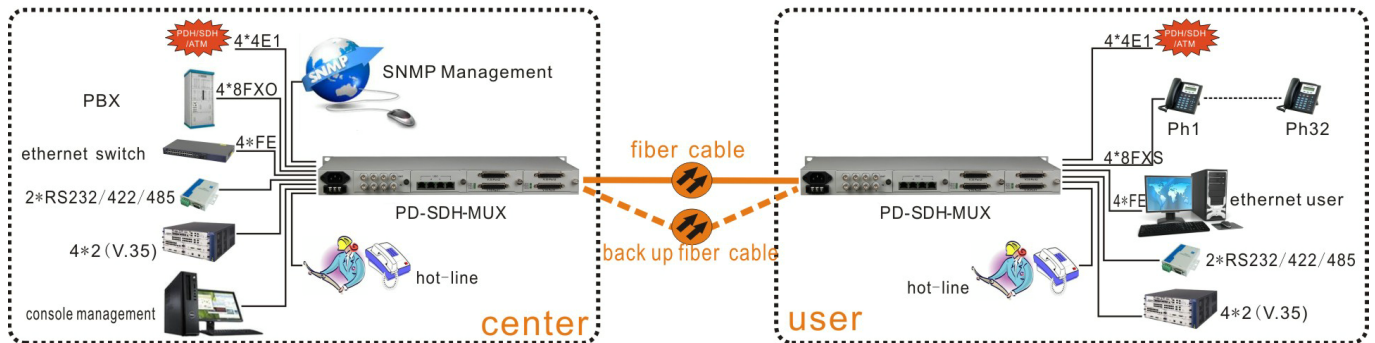
19 Inch 1U Type

**FEATURES**

- Provides total 4 10/100M ethernet port transparent transmission capacity.
- With char 1\*LCD display and SNMP agent inside.
- Provide Console manage interface(RS232).
- Provide one SFP fiber interfaces.
- The rate of optical port is 155Mbps, transmission range can reach 25KM.
- Provide two fiber interface 1+1 protect (APS) function, and ALS (Automatic Laser Shutdown/Reduction) function.
- Provide 4 slots plug-in modules:
  - 4xunFramed E1 module (75Ω)/(120Ω).
  - 4xV.35 (2.048M Fixed speed) module.
  - 2xRS232 module.
- Has complete alarm function and can monitor remote device status.
- Supports E1 loop from remote so as to detect and manage device conveniently.
- The combination AC220V and DC-48V for redundant.

# PRODIGY MULTIPLEXER

## APPLICATIONS



## PARAMETERS

- V.35 Module**
  - Channel capacity: 4 channel/module.
  - Bit rate:  $N \times 64\text{Kbps}$ ,  $N = 1 \sim 32$ .
  - Clock mode: Internal, External, DTE, Recovery.
- RS232 Module**
  - Channel capacity: 2 channel/module.
  - Loopback: Local loopback, remote loopback.
- E1 Interface**
  - E1 interface protocol: ITU-T G.703.
  - Interface Rate:  $2048\text{Kbps} \pm 50\text{ppm}$ .
  - Interface Code: HDB3.
  - E1 Impedance:  $75\Omega$  (unbalance L9),  $120\Omega$  (balance RJ45).
  - Jitter tolerance: In accord with protocol G.742 and G.823.
  - Allowed Attenuation:  $0 \sim 6\text{dBm}$ .
- Working Environment**
  - Working temperature:  $-10^\circ\text{C} \sim 50^\circ\text{C}$ .
  - Working Humidity:  $5\% \sim 95\%$  (no condensation).
  - Storage temperature:  $40^\circ\text{C} \sim 80^\circ\text{C}$ .
  - Storage Humidity:  $5\% \sim 95\%$  (no condensation).
  - MTBF:  $>100,000$  hours.

## SPECIFICATIONS

- Functional Description:** With LCD display, four-slot Multi-Service Optical 19-inch rack.
- Port Description:** 2 SFP optical ports, an SNMP network management port, one Console network management port, 2-way transparent RS232 asynchronous channels over 4 V.35.
- Power:** AC90V ~ 260V; DC -48V/+24V(Selectable); Power Consumption:  $\leq 5\text{W}$ .
- Dimension:** 485(length) X 138(width) X 44(height) mm(19 inch 1U Type).
- Weight:** 2.5Kg/Pcs(19 inch 1U Type).