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Expansion of legacy PCM network with multi-function and multi-services; seamlessly merge with fiber, GPON, SDH, IP, HDSL all kinds of network together with flexible choices of voice and data interfaces.
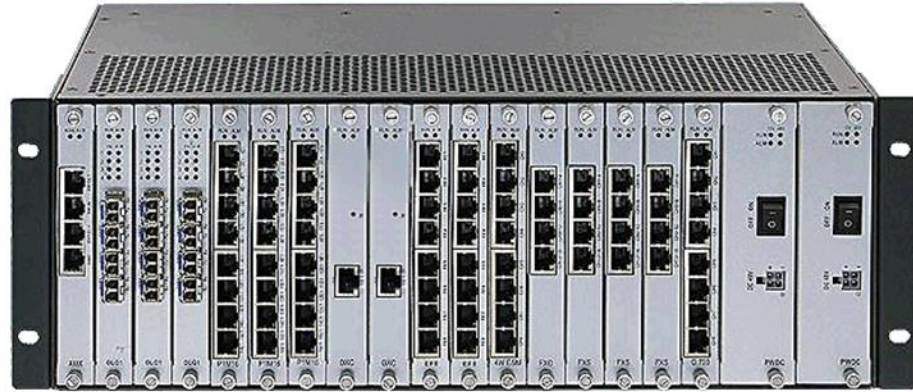
Model PT-50T 3519
Aggregate Multi-function Multiplexer

PT-50T Series

Introduction

PT-50T 3519 adopts 3.5U height standard 19" rack mountable chassis for exchange office. The powerful switching matrix provides 7680 x7680 non-blocking cross connections. System supports maximum 240 x E1, and 240 x 64Kbps channels with the expansion chassis. Various network cards, such as PDH, E1 and TDMoIP (Ethernet) uplink card are available for fitting different networks requirement.

System designs with reliability enhancement, such as redundancy controller, 1+1 uplink and dual power supply. It can configure for point to point or point to multipoint networking with different type of transport media; and it can execute D/I (drop/insert) function by cross connection matrix as well.

PT-50T 3519 is managed by the powerful NMS system for real time monitoring, local / remote diagnostic and alarm control. System software can be downloaded remotely through the management control center without engineer on site.

Features

➢ Enhanced redundant and hot swappable design for controller, network interface and power supply;
➢ Versatile concentration platform, support E1, PDH and TDMoIP networking;
➢ Reliable system design with redundant controller, 1+1 optical link protection and dual power supply;
➢ Powerful 7680 x 7680 non-blocking matrixes for 240 x E1 cross connection;
➢ Synchronous data module includes 64Kbps co-directional, N×64Kbps data interface;
➢ Asynchronous data module with RS232 and RS485 interface;
➢ Voice module includes FXO, FXS, Hotline, Magneto, Carrier-wave and 2/4-wire E&M interface;
➢ Data modules include RS232、RS485、V35、G703;
➢ Total 19 slots: 2 fixed slot for Master control card, 2 fixed slot for Power supply, 15 slots for service business;
➢ NMS port: RS232 or Ethernet interface;
➢ Upgrade firmware and software remotely;
➢ Power supply with AC220V or DC-48V, or AC220V + DC-48V.

Specification

➢ E1 Interface
   Bit rate: 2.048Mbps ±50ppm
   Code type: HDB3 code, G.703 standard
   Input impedance: 75Ω or 120Ω
   Frame structure: G.704, G.706
   Jitter: G.742, G.823

➢ PDH Optical Interface
   Bit rate: 150Mbps ±50ppm
   Output optical power: ≥-15dBm
   Receiving sensitivity: ≤-35dBm
   Optical wavelength: 1310nm/1550nm
   Optical interface connecter: SFP/LC

➢ Power Supply
    Input voltage: -48Vdc or 220Vac
    Voltage range: -36Vdc ~ -72Vdc, 176Vac ~ 264Vac
    Power consumption: <360W
➢ Operation Environment
    Working temperature: -10°C ~ 50°C
    Working humidity: 5% ~ 95 % (non-condensed)
    Storage temperature: -40°C ~ +80°C

➢ Ethernet Interface
    Bit rate: 10/100Mbps, half/full duplex auto
    Standard: IEEE 802.3, IEEE 802.1Q (VLAN)
    Connector: RJ45
➢ Mechanical Structure
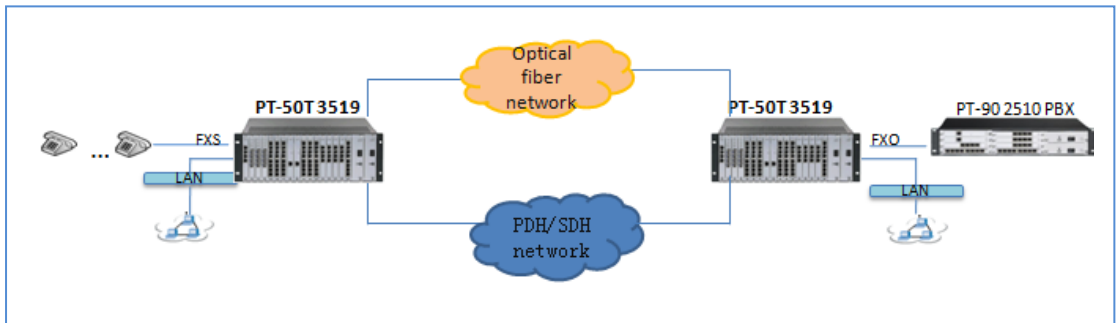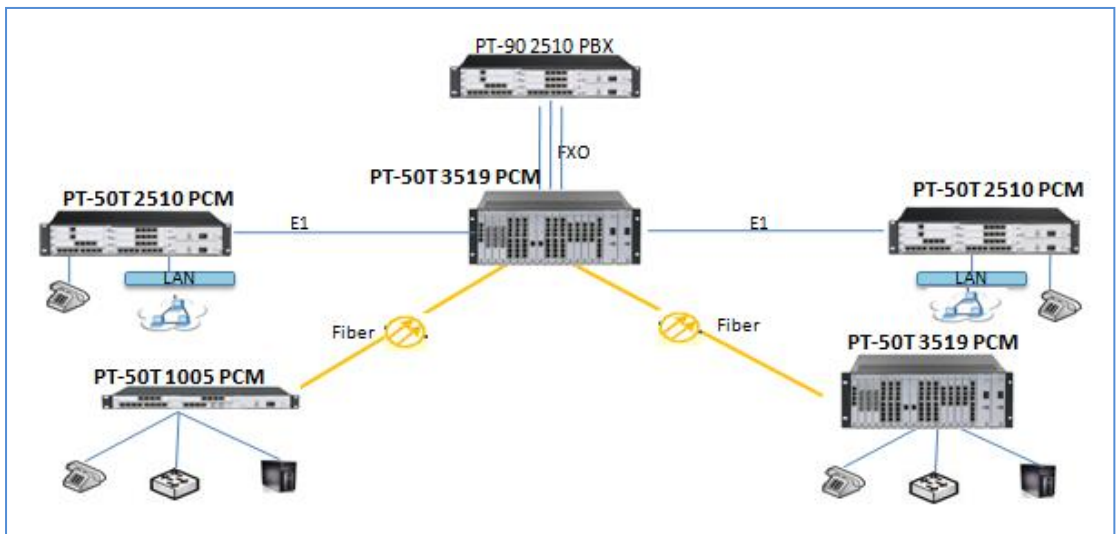   Dimension: 440mm x 276mm x 154mm
    Net weight: 15Kg

Application

Diagram 1: Point to point

Diagram 2: Point to multipoint

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