

## Model PT-60 1001

### Mini-compact SDH / MSTP

#### Introduction

**PT-60 1001** is a new generation, enhanced SDH / MSTP device. It is a carrier-class, high compact platform and aimed for metro and SDH networks access. It can work as Add-Drop Multiplexer (ADM), Termination Multiplexer (TM), and also as a Gigabit Ethernet to SDH converter.

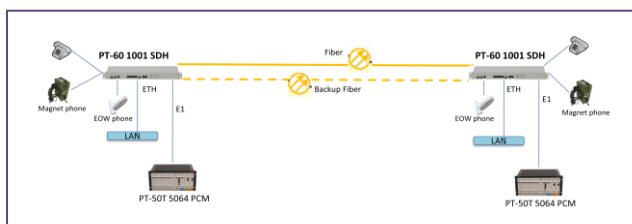
PT-60 1001 with extremely strong cross-connection ability, it supports 64K up to low / high order of SDH cross-connection. Not only the STM-1 / STM-4 optical port can work as the network uplink, it can also configure the n x E1 ports as the network uplink simultaneously. The co-working optic and E1 network uplinks provides customer a very flexibly networking configuration.

Any combination of AC, DC dual power is supported, and equipped on a 1U height, 19 inches width rack mountable casing. Such powerful cross connect switch, flexible networking, link protection and redundancy power supply, various voice / data services which make PT-60 1001 the most function rich, reliable and cost effective solution for seamlessly migration of the E1 TDM network onto the SDH network.

#### Features

- 19" rack mountable, 1U height compact size;
- System supports point-to-point, chain and ring network applications;
- Gigabit Ethernet to STM-1 conversion, data rate up to 63 x VC12;
- STM1 / STM-4 and n x E1 co-working simultaneously as network uplinks;
- System supports 2 x STM-1, or 2 x STM-4 optical ports as ring protection;
- Ethernet supports 4 x GE electrical ports or 3 x GE electrical ports plus 1 x GE optical port;
- Order-wire channel for point-to-point and point-to-multipoint voice communication;
- Sophisticate configurable system protection with SNCP network protection and 1+1 interface protection;
- In-band management channel for remote control and system management;
- Two expansion slots for E1 or various data or voice modules;
- Alarm relay is provided for external alarm facility connection;
- Remote firmware and software upgrade is available;
- Redundancy power supply is supported with any combination of the power supply unit.

#### Application



#### Specifications

- Optical Interface
  - Bit rate: 155Mbps  $\pm$ 50ppm or 622Mbps  $\pm$ 50ppm
  - Output optical power:  $\geq$ -15dBm
  - Receiving sensitivity:  $\leq$ -35dBm
  - Optical wavelength: 1310nm / 1550nm
  - Optical interface connector: SFP/LC
- E1 Interface
  - Bit rate: 2048Kbps  $\pm$ 50ppm
  - Code type: HDB3 code, G.703 standard
  - Input impedance: 75 $\Omega$  (default) or 120 $\Omega$  (optional)
  - Frame structure: G.704, G.706
  - Compression law: to G.711
  - Level:  $\pm$ 2.37V  $\pm$ 10%
- ETH Interface (10/100/1000M)
  - Interface rate: 10/100/1000Mbps, auto
  - Standard: IEEE 802.3, IEEE 802.1Q (VLAN)
  - Connector: RJ45
- Order Wire Phone
  - Use standard 2-wire phone set
  - Channel: 1
  - Coding: PCM
  - Bandwidth: 64Kbps
  - Connector: RJ11
- Mechanical Dimension
  - Dimension: 440mm (W) x 250mm (D) x 44mm (H)
  - Net weight: 4Kg
- Power Supply
  - Input voltage: -48Vdc and/or 220Vac
  - Voltage range: -36Vdc ~ -81Vdc, 165Vac~265Vac
  - Power consumption: <10W
- Operation Environment
  - Working temperature: -10 $^{\circ}$ C ~ 50 $^{\circ}$ C
  - Working humidity:  $\leq$ 90 % (no condensed)

