SDH MULTIPLEXER



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TSM-60-1001



INTRODUCTION:

TSM-60 1001 is Intelligence gathering type bridge base on the large capacity Ethernet line access requirements, It can achieve 63groups E1 to Ethernet converge. It's newly-developed optical fiber transmission equipment based on SDH technology. It can design as a STM-1/STM-4 level optical terminal with two 155Mb/s or 622Mbit/s optical interfaces to provide an ultra-compact, cost-effective and flexible multi-service platform. PT-60 1001 can be used not only as a add-drop multiplexer (ADM), but also as a termination multiplexer(TM).

The equipment is standard 19 inch 1U height.

FEATURES:

- 1U-height compact-size design.
- Provides 256x256 VC12 level,12x12 VC4 level non-blocking cross connection, supports flexible add/drop business, bi-directional and broadcasting capacity.
- Provides sub-network connection protection, 1+1 redundancy protection, etc.
- Provides variety of network configurations: point-to-point, link and multi-ring.
- Provides E1, 10M/100/1000M business interfaces.
- Provides up to 16 E1 interfaces; 4×10/100/1000 BASE-T Ethernet interfaces; 2 STM-1 optical interfaces or 2 STM-4 optical interfaces, up to 16 channels FXO/FXS/4WEM.
- Allows configuring STM-1 system to/from STM-4 system only by replacing interface modules; simply upgrading.
- Provides order wire interface (2-wire interface), with the functions of group calling and selected calling.
- Provides timing synchronization interface. Provides STM-1 and STM-4 line-rate timing source.
 Supports the SSM function.
- Provides DCC channel of D1 to D3; Using TCP/IP communication protocol.
- Provides F (Ethernet), f (RS232) network management interfaces for configuration, alarm, performance, maintenance and security functions of ITU-T definition.
- Provides equipment software download, with the ability of software remote upgrade.
- Supports online upgrade function.
- Provides access to remote modem network management, supports remote monitoring.
- Supports Super Long-distance (≤80Km), Long-distance(≤50Km), Short distance (≤30Km)fiber transmission.
- Provides fans to disperse heat forcibly, or allows natural heat dispersion without using fans as well; provides the fans controlling temperature and inspecting their own status to guarantee the equipment running stably.
- Flexible structure designing: allows the front access or the rear access by the method of mounting shelves.

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Technical Specification

• Ethernet interface

Comply with IEEE 802.3 relative standards.

Reference GB YD/T 1061-2000。

Ensure the point to point transparent transmission of Ethernet business, including ---transparent

transmission of Ethernet MAC frame and VLAN tag.

E1 interface

Bit rate(Kb/s):2048

Bit rate error tolerance: ±50ppm

Code type:HDB3

• Order wire telephone

Signaling mode: dual tone multi frequency mode

(DTMF)

Signal tone

Busy tone: 0.4 second interruption

Ringing mode: Buzzer sounds

Ringing tone: Same with the ring back tone

Frequency: 450Hz

• Dial tone: Long legato

• Ring back tone: 1second on, 4 seconds off

Power supply

Input voltage: Standard value -48VDC and 220VAC

Voltage range: -36VDC ~ -72VDC, 176VAC ~

264VAC

Power consumption: ≤50w

Working environment

Working temperature: -10°C ~ +50°C

Working humidity: ≤90% (no condensation)

Application

