Integrated Optical Transmission Equipment

MST-3000 MSTP

This product integrates SDH, PCM (64K Service), DXC (Digital Cross Connection), TDM over IP, and IPPBX into a single system. It is deployed between the backbone network and the access network, providing various service ports and high-capacity transmission capabilities.

MST-3000 Series

STM-16, STM-4 and STM-1

Supports Various STM Services

DXC / TDM over IP / SIP

Supports Flexible Configurations

PCM Service

Provides services such as FXS, FXO, 4WE&M, RS232, V.35, OCUDP, 16E1, Ethernet

Power Redundancy

Supports Various Power Inputs such as AC/AC, DC/DC, AC/DC

High Performance, Low Costs

This highly compatible and cost-effective product allows PCM services to be optically transmitted over STM hierarchy and transported over IP networks within a single system, making it suitable for any network configuration.

Features	Specification
Dimensions	159mm×484mm×276mm(H×W×D)
Number of slots	>19
Working temperature	-10°C to 50°C
Equipment protection	Cross-connection matrix and clock unit 1+1 protection Uplink and downlink interface card 1+1 protection Power 1+1 protection
Network protection	1+1 MSP, SNCP
Clock port	1 channel external input clock, 1 channel output. (2Mbit/s or 2MHz is optional. 120Ω interface)
Clock working mode	Lock mode, holdover mode or Free-run mode
Power &consumption	DC -48V (-36V to -72V) Less than 360W when full configuration
Cross Connection Capacity	192x192 VC4 high order cross-connection 4032 x 4032 VC12 lower order corss-connection
System Maximum Access Capacity	2×2.5Gbit/s SDH Optical Port 16×622Mbit/s SDH Optical Port 64×155Mbit/s SDH Optical Port 12×GE Electrical Port, 120×FE Electrical Port, 240×E1 Port, 240×FXO Port(PBX Side), 240×FXS Port(Subscriber Side), 240×RS232 Port, 120×4WE&M Port, 120×V.35 Port, 4 Digital Trunk, 2880TSxTDM over IP, 200 SIP Trunk, 200 SIP user
Ethernet Service Processing Capacity	Ethernet service will be encapsulated into N*VC12/VC3/VC4 transparent transmission Support flow control Support aggregation

Product Features

- ❑ Voice
  - ➢ FXO, FXS, RD, 2/4W E/M
- ❑ Serial Data
  - ➢ RS232 / RS485 / RS422, V.35, OCUDP
- ❑ Ethernet
  - ➢ 10/100/1000 Mbps
- ❑ Management Function
  - ➢ Supports SNMP/NMS

Optical - Multi mode	
Max Transmission Distance	5Km (3dbm/km)
Wave Length	820nm
Transmitting power	-12dBm ~ -9dBm
Receiver sensitivity	-28dBm
Link budget	16dBm

Optical - Single mode	
Max Transmission Distance	60Km
Wave Lengh	1310nm-1550nm(1core or 2core Option)
Transmitting power	-9dBm ~ -8dBm
Receiver sensitivity	-27dBm
Link budget	18dBm

Ethernet	
Interface	10/100/1000Mbps
Communication Mode	Half/Full duplex Auto-negotiation
Connector	RJ-45, Support auto MDIX

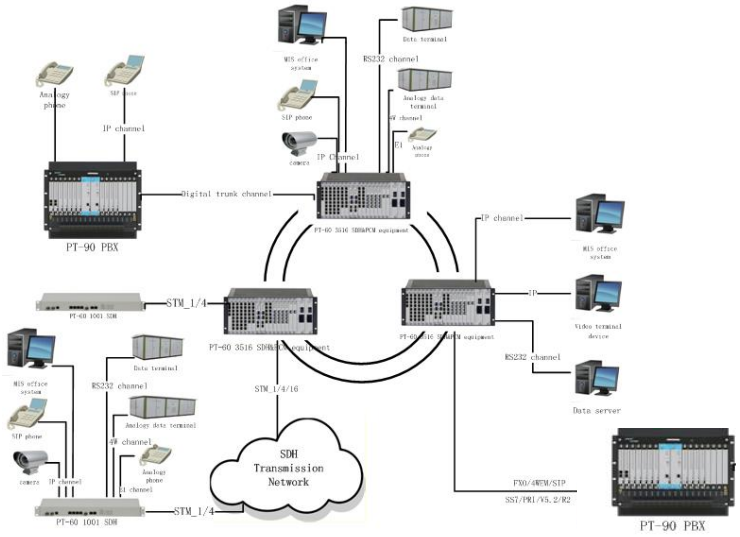
E1 Interface 16Port(RJ-45)	
Interface Standard	comply with protocol G.703
Interface Rate	n*64Kbps±50ppm
Impedance	75Ω (unbalance), 120Ω (balance)

FXS 16Port(RJ-45)	
Ring voltage	75V
Ring frequency	25HZ
Two-line Impedance	600 Ohm (pick up)

FXO 16Port(RJ-45)	
Ring detect voltage	35V
Ring detection frequency	17HZ-60HZ

Powering	
Power	DC –48V
Power Consumption	< 240W
Redundancy	DC+DC

System Application (Example)



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