

Model PT-60 3516

Ultra High Compact SDH / MSTP



Introduction

PT-60 3516 is extreme high compact and powerful MSTP equipment, it integrates all kind of transport platforms, such as IP Ethernet, SDH, PDH, DDN, PCM all together; supports all type of digital services, such as digital cross connect (DXC), IPPBX, voice/data drop/insert services all-in-one on a 3.5U height, 19 inches width equipment shelf.

By the advanced state-of-art modular design, PT-60 3516 has the 20Gbps back plane main bus, make it capable to provide the most flexible combination of services to fulfill all kind of modernized communication demand. Its compact chassis provides dual controller, dual power supply and interface card hot swappable capability, make it the most reliable equipment to use for access, even core network.

With its versatile and incredible capability, it can be configured as SDH switch, TDM over IP switch, digital cross connect switch, an IPPBX switch or even all together, and provides cross connection and signal conversion between all these channels.

Features

- Ø The most high compact MSTP equipment with just 3.5U height shelf
- Ø Standard 19" rack mounting front access chassis with fan unit on the back
- Ø 20Gbps ultra-high capacity main bus back plane
- Ø Hot swappable for controller and all types of trunk cards and user cards
- Ø High flexibility with modular design, common slot for trunk and user cards
- Ø Extra large scale switching capacity with 4032 x 4032 VC12 non-blocking switching
- Ø Reliable structure with 1+1 controller, 1+1 power supply and 15 common slots for trunk and user cards
- Ø Sophisticated configurable system protection with 1+1 MSP, SNCP network protection and 1+1 interface protection
- Ø Versatile configurable function as SDH switch, DXC, TDMoIP switch, IPPBX or signaling gateway
- Ø System supports 4 x STM-16, or 25 x STM-4, or 64 x STM-1 optical ports
- Ø Ethernet supports 12 x GE, or 120 x FE electrical ports
- Ø Total 7200 timeslots cross connection for TDM over IP Ethernet
- Ø Data interface provides V35, FV35, RS232 for selection
- Ø Analogue interface supports FXS, FXO, 4 wires E&M, MAG and HOT line
- Ø IPS card can register 400 x SIP phones or defined as 200 x SIP trunks
- Ø IPS card supports general PABX function with all kinds of call feature, such as caller display, call forward, call transfer, call waiting, call pickup, call back, call hunting, DND (Do Not Disturb), DID (Direct Inward Dial), DOD (Direct Outgoing Dial), CDR (Call Detail Record), IDD & DDD lock, wake-up call, voice mailbox, background music ... etc.
- Ø Sophisticated signaling interchange feature supports analogue and digital voice signaling conversion, includes SIP, ISDN/PRI, SS7, V5.2, R2, DTMF, 4Wires E&M, FXS/FXO etc.

Specification

- Ø Number of Slots
15 slots for interface, 2 slots for controller, 2 slots for power supply
- Ø System Cross-connection Capacity
192 x 192 VC4 high order cross-connection;
4032 x 4032 VC12 lower order cross-connection;
- Ø Network Protection
1+1 MSP, SNCP
- Ø Equipment Protection
Cross-connection matrix and clock unit 1+1 protection
Uplink and downlink interface card 1+1 protection
Power 1+1 protection
- Ø Power Supply
Input voltage: -48Vdc or 220Vac
Voltage range: -36Vdc ~ -72Vdc, 176Vac ~ 264Vac
Power consumption: <360W
- Ø Operation Environment
Working temperature: -10°C ~ 50°C
Working humidity: 5% ~ 95 % (non-condensed)
Storage temperature: -40°C ~ +80°C
- Ø System Maximum Capacity
4 x 2.5Gbps SDH Optical Port (I-16, S-16.1, L-16.1, L-16.2)
25 x 622Mbps SDH Optical Port (I-4, S-4.1, L-4.1, L-4.2)
64 x 155Mbps SDH Optical Port (I-1, S-1.1, L-1.1, L-1.2)
- Ø 12 x GE Electrical Port 120 x FE Electrical Port
- Ø 240 x E1 Port 240 x FXO Port
- Ø 240 x FXS Port 120 x 4WE&M Port
- Ø 240 x RS232 Port 120 x V35 Port
- Ø 120 x G.703 (64K) 120 x FV35 Port
- Ø 56 Digital Trunk 2800 x SIP-Trunk or
- Ø 7200 TS x TDM over IP 5600 x SIP-Extension
- Ø Clock Port
1 output, 1 external input (2Mbps or 2MHz optional)
- Ø Clock Working Mode
Lock mode, holdover mode or Free-run mode
- Ø Mechanical Structure
Dimension: 440mm x 276mm x 154mm
Net weight: 15Kg

Application

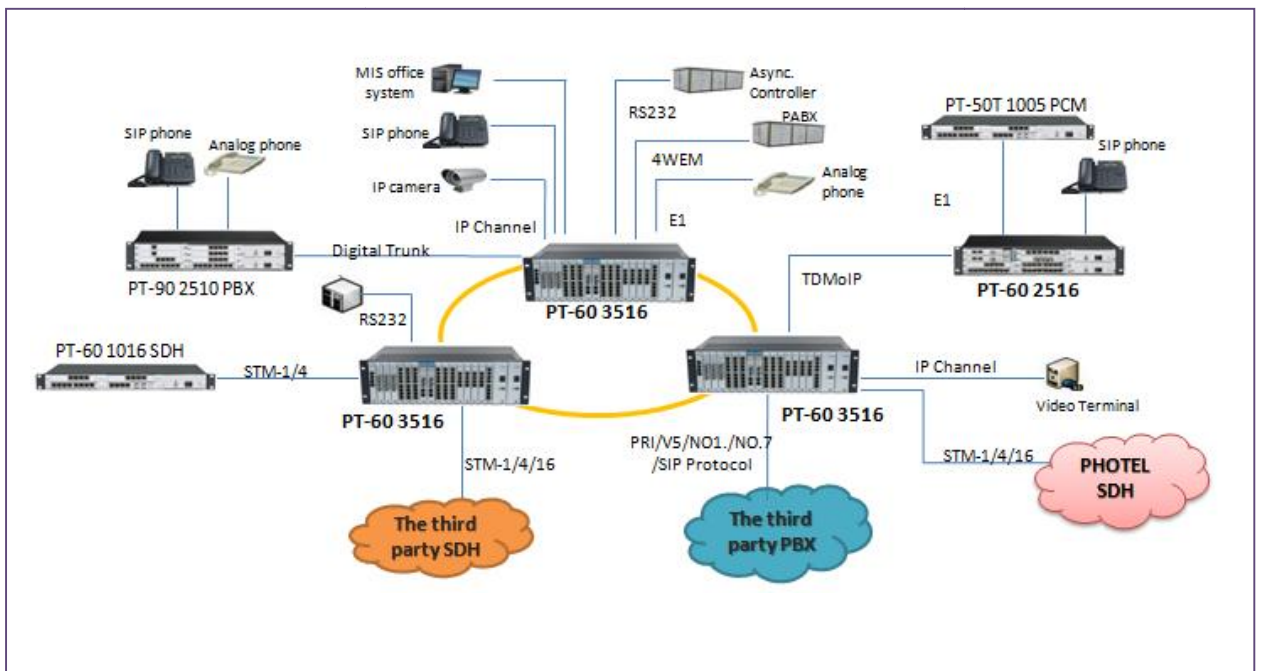


Diagram 1: Backbone networking for voice and data