

Product Handbook



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- SHDSL modem, full duplex operation over 2W copper infrastructure
- V.35, G.703 E1 & Ethernet Bridge DTE interfaces
- SHDSL.bis (5.7Mbps) support for Ethernet interface
- Operates at multiple data rates from 64-2304 Kbps
- Configuration via DIP Switches
- Extensive diagnostics with Local Analog, Remote Digital loopbacks
- E1 & SHDSL link monitoring through Managed Central Chassis
- Wide Range AC/DC Power Supply
- TEC Certified



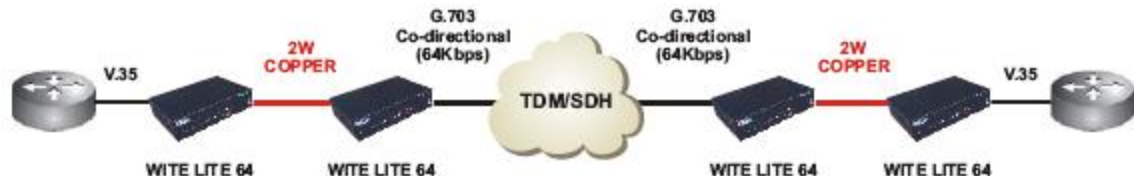
- SHDSL/SHDSL.bis modem extending high speed Ethernet LAN's over existing 2W/4W copper infrastructure
- Configurable for SHDSL or SHDSL.bis modes
- Operates at multiple data rates from 64-5696Kbps on 2W & 128-11392 Kbps on 4W
- Supports Fault Pass Through function
- Extensive G.SHDSL link monitoring through Managed Central Chassis
- Wide Range AC/DC Power Supply
- TEC Certified



- SHDSL.bis modem extending E1, V.35 & Fast Ethernet LAN's over existing 2W copper infrastructure
- Integration of Voice & High-Speed Data services over copper infrastructure
- Operates at multiple data rates from 64-5696Kbps on 2W
- Extends distance up to 2.5Km for 5.7Mbps over 24AWG copper
- Configurable from Console/CLI
- E1 & V.35 Loopbacks for diagnostics with extensive performance monitoring
- Wide Range AC/DC Power Supply



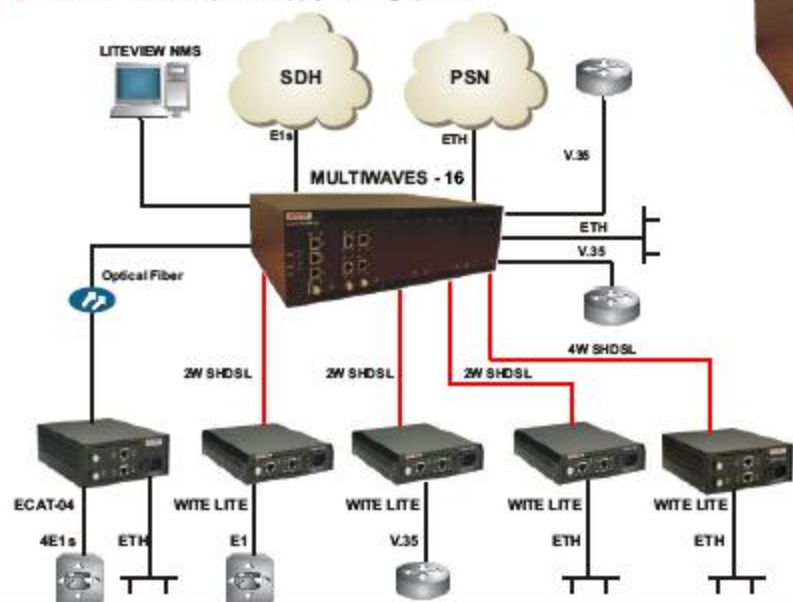
- 64Kbps Modem, full duplex operation over 2-wire copper infrastructure
- Compliant to ITU-T TC-PAM Standards
- Co-Directional G.703 (64Kbps) & V.35 DTE interfaces
- Plug & Play Device
- Extensive Diagnostics with Local, Remote & Digital Loopbacks with Internal Pattern Generation & LED Indicators for Link Monitoring
- Wide Range AC/DC Power Supply
- TEC Certified



- 6U High SNMP Managed Last Mile Multi-Service Access Rack
- Modular Chassis with dual power supplies, 11 Slots for I/O Modules with hot swappable functionality
- STM-4/STM-1/GbE Aggregation for SDH & Packet Switched Networks
- 16*16 VC-4 or 1008*1008 VC-12 Non-Blocking Cross connect capacity
- Multiple Tributary options with SHDSL, SHDSL.bis, Optical Multiplexing, Ethernet over SDH (EOS) modules
- Redundancy for Aggregation modules
- Comprehensive diagnostics & performance monitoring
- Inter-operable with WITE LITE-2W, WITE LITE-4W, ECAT-04, ECAT-08 remote CPE's
- Inter-operates with 3rd party ADM's for EOS applications
- Local & Centralized Management via CLI, TELNET, SNMP & LITEVIEW NMS



- 3U High 16-slot Managed Last Mile Access rack
- Convergence of Last Mile Access integrating multiple technologies, interfaces, data-rates
- Works opposite WITE LITE-2W, WITE LITE-4W, PINE-V35, PINE-E1, ECAT-04 remote CPE's
- Hot Swappable power supply & I/O modules
- Management options via Console/CLI, TELNET, SNMP, LITEVIEW NMS
- Cascading of up to 4 Multi-Waves chassis for central management via single IP address (One chassis serves as master, three serve as slaves)
- Redundant AC & DC power supply ordering options



- Intelligent Ethernet (4*10/100Base-T) over E1 converter
- Framed & Unframed E1's
- HDLC over E1 encapsulation
- Fault Pass Through Function
- QoS, VLAN, Rate-Limiting & Broadcast Storm Control functions
- Local & Remote Management with DIP Switches & Console
- AC & DC Power Supply ordering options



- Wire-Speed E1 to Ethernet Interface Converter
- Supports Framed & Unframed E1 operation
- Fault Pass Through function
- Plug & Play device
- Link monitoring through Managed Central Chassis
- Alarm analysis with front panel LED indicators
- Wide Range AC/DC Power Supply



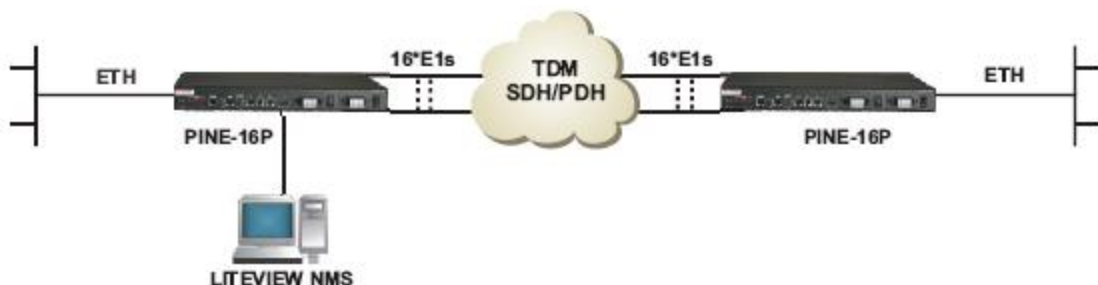
- E1 to Serial V.35 Interface Converter
- Supports Framed & Unframed E1 operation
- Fault Pass Through functionality
- Local & Remote Alarm Indication of E1 link
- Link monitoring through Managed Central Chassis
- Extensive diagnostic via local & remote loopbacks & inbuilt BERT
- Wide Range AC/DC power supply



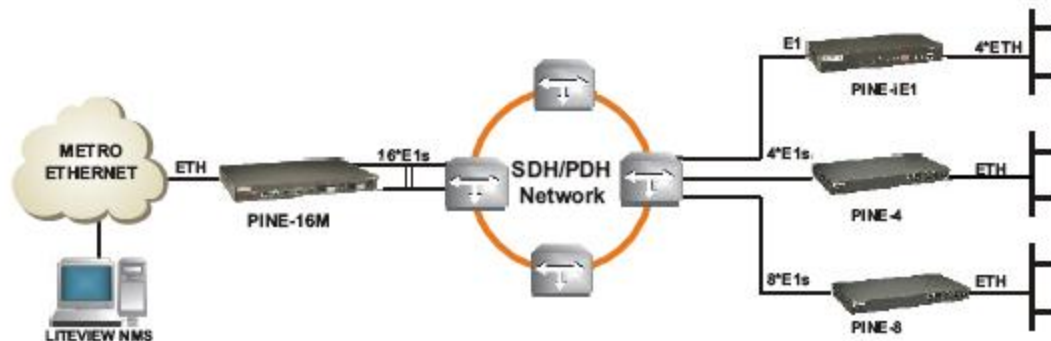
- Fast Ethernet (4*10/100Base-T) over bonded 4/8*E1's converter
- Framed E1 Operation
- Supports HDLC & GFP encapsulation
- Fault Pass Through Function support
- Rate Limiting & Egress Shaping per port
- Broadcast/Multicast/Unicast Storm Control
- Supports up to 8K MAC addresses, 4K active VLAN's
- Supports Double Tagging (Q-in-Q)
- Port Loopback Detection (Automatically shuts down port on loopback detection)
- Power supply & temperature monitoring
- Local & Remote Management with CLI, TELNET, Web based Management & LITEVIEW NMS
- AC & DC Power Supply Ordering options



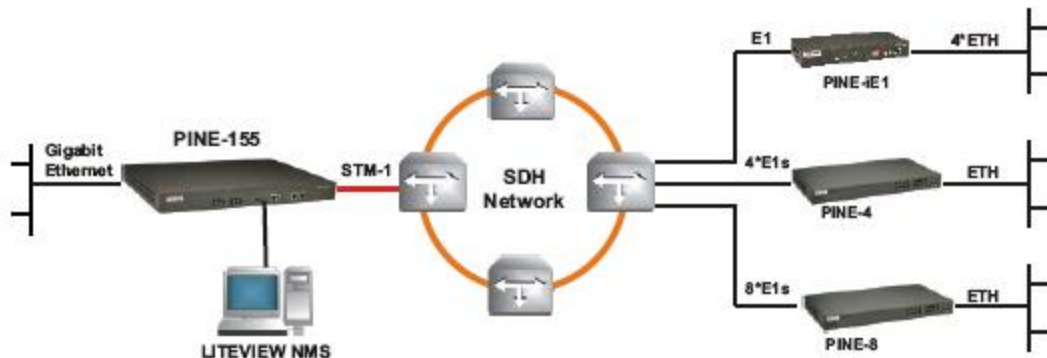
- Fast Ethernet over 16*E1s for Point to Point Application
- Framed & Unframed E1 Operation
- GFP & LCAS encapsulation support
- VLAN unaware/aware & double tagging modes of operation
- Maximum Transmission Unit of 9000 bytes
- Inband & Out of Band management with SNMP, TELNET, CLI, & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



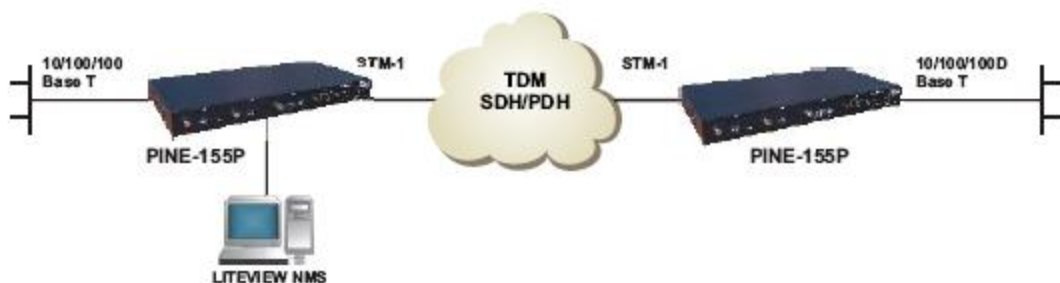
- Fast Ethernet over 16*E1s for Point to Multi-Point Applications
- Framed & Unframed E1 Operation
- Aggregates Ethernet traffic from multiple Pine-E1, Pine-iE1, Pine-4 & Pine-8
- HDLC over E1 encapsulation support
- VLAN unaware/aware & double tagging (Q-in-Q) modes of operation
- Inband & Out of Band management with SNMP, TELNET, CLI & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



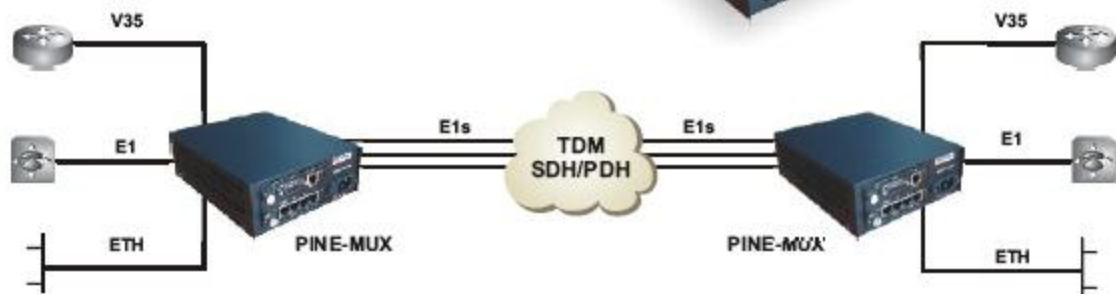
- Inverse Multiplexing Gateway delivering GbE Services over SDH networks
- Supports HDLC over E1 encapsulation for services from single E1 to $n \times E1$
- Aggregates 63 E1s & interoperable with Pine-E1, Pine-iE1, Pine-4 & Pine-8
- Combo GbE ports (Copper/Fiber) & 2*STM-1 interfaces (1+1 protection)
- Rate Limiting: Ingress & Egress ($N \times 64K$)
- VLAN aware and VLAN unaware modes of operation
- Inband & Out of Band management with SNMP, TELNET, CLI & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



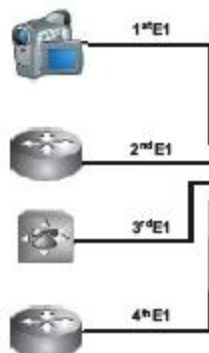
- Inverse Multiplexing Gateway delivering GbE services over SDH networks for Point to Point Applications
- Standards-based GFP/LAPS encapsulation for mapping Ethernet frames to STM-1
- 10/100/1000Base-T ports (RJ-45) & 2*STM-1 interfaces (1+1 protection)
- Rate-Limiting with granularity of VC-4/VC-12
- Jumbo Frame (9600 bytes) support
- Inband & Out of Band management with SNMP, TELNET, CLI, LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



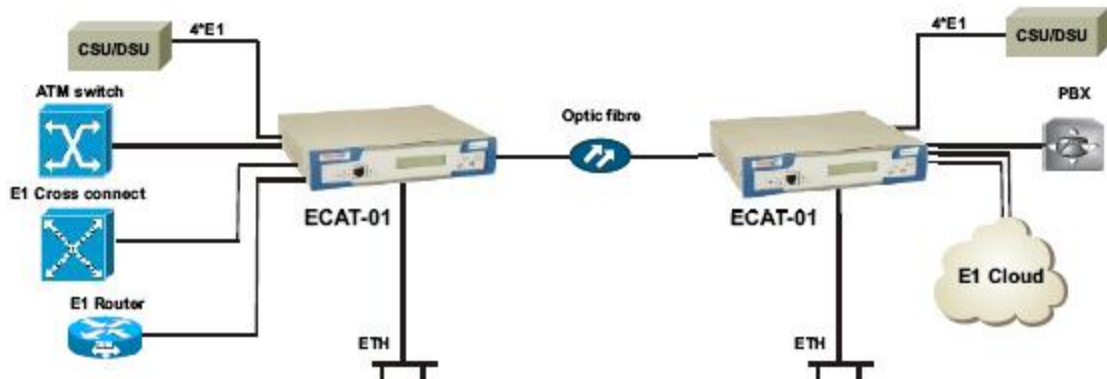
- E1 Multiplexer extending legacy TDM & Ethernet LAN traffic over existing TDM networks
- Integration of Voice & High-Speed Data services over multiple E1s
- 3 Uplink E1 ports with 1 x sub-link E1, 1 x V.35 & 2 x Ethernet user ports
- Fault Pass Through Functionality from Uplink to User ports
- Fail-Safe Bypass Functionality
- Configurable from Console/CLI
- Enhanced E1 link monitoring with diagnostics (loopbacks & internal BERT) for troubleshooting
- Wide Range AC/DC Power Supply



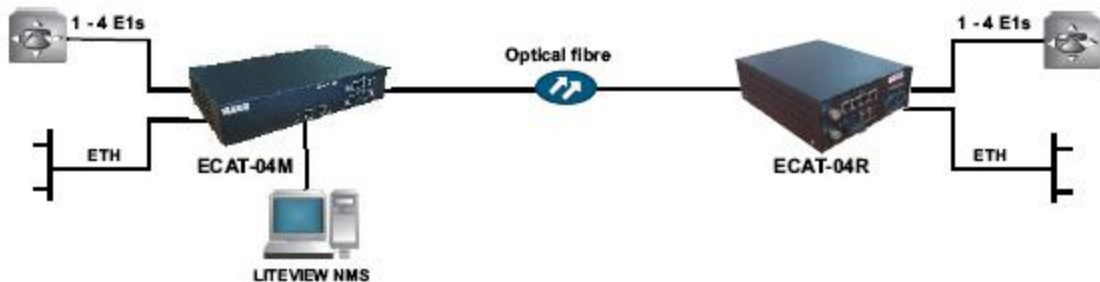
- 4E1 channels over Fiber port
- Conforms to ITU G.703, H.823, G.824, GR-499 Core jitter requirements
- Plug & Play device
- DIP Switches for loopback diagnostics
- Supports MM, SM & SF options
- Support for long haul transmission upto 100Kms
- Wide Range AC/DC power supply

**Location - A**Video
conferencing**Location - B**Video
conferencing100Base-FX
Dark fiber

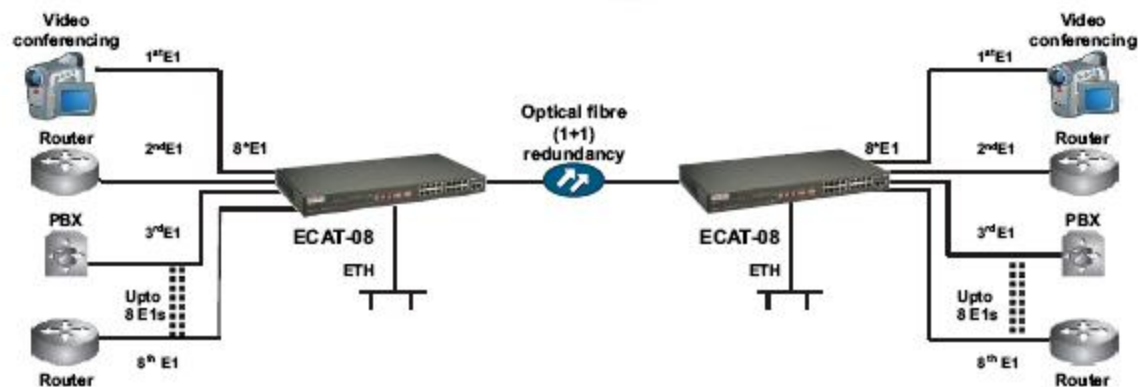
- 4E1 channels & 1 Ethernet over 100Base-Fx
- Conforms to ITU G.703, H.823, G.824, GR-499 core jitter requirements and IEEE Ethernet standards
- Easy configuration with Front LCD panel
- Remote alarm monitoring
- Link & port status of local & remote units
- Loopback support for diagnostics
- Wide Range AC/DC power supply



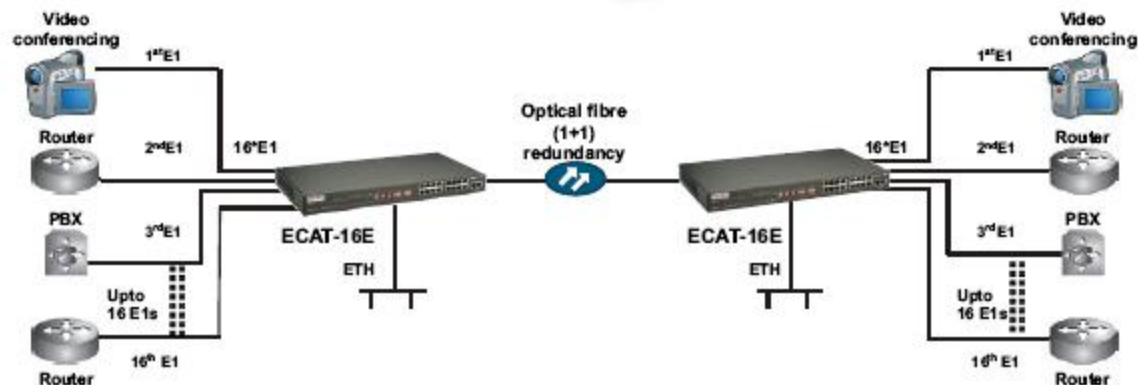
- SNMP Managed Multi-Service (4*E1 + 1*10/100Base-T) Point to Point Optical Multiplexer
- Local and remote alarm indication
- Auto Laser Shutdown (ALS) & Dying Gasp functions
- Local & Remote Loopback for diagnostics and troubleshooting
- Inter-operates with WAVES-12 central-site chassis
- Supports Local & Remote SNMP Management from LITEVIEW NMS
- Wide Range AC/DC Power Supply



- Multi-Service (8*E1 + 1*10/100Base-T) Point to Point Optical Multiplexer
- Local and remote alarm indication
- Auto Laser Shutdown (ALS) function
- 1+1 Optical Protection
- Local & Remote Loopback for diagnostics and troubleshooting
- Inter- operates with WAVES-12 central-site chassis
- Redundant AC & DC Power Supply Ordering options



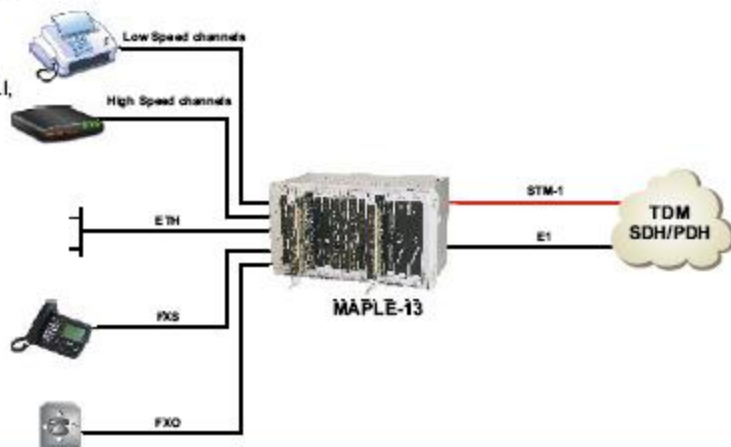
- Multi-Service (16*E1 + 1*10/100Base-T) Managed Point to Point Optical Multiplexer
- Local & Remote Alarm Indicators
- Auto Laser Shutdown (ALS) function
- 1+1 Optical Protection
- Local & Remote loopbacks for diagnostics & troubleshooting
- Redundant AC & DC Power Supply Ordering options



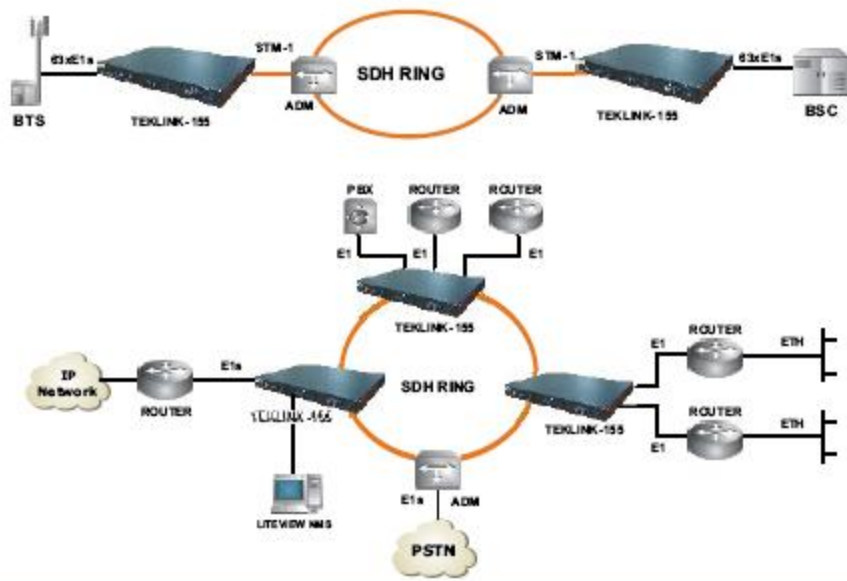
- 1U High Modular Integrated Access TDM Multiplexer with 4xE1s and 3 I/O slots
- Add/Drop analog and digital circuits from E1 networks
- Flexible network topologies: Point-to-Point & Chain
- Services supported: FXS, FXO, E&M, RS232, RS422, V35, V24 and Fast Ethernet
- Non-blocking DSO cross-connect of 4E1
- Support hot swappable I/O modules
- Diagnostics with Loopbacks, Extensive LED Indicators with sound alarm for Link Monitoring
- AC & DC Power Supply Ordering Options



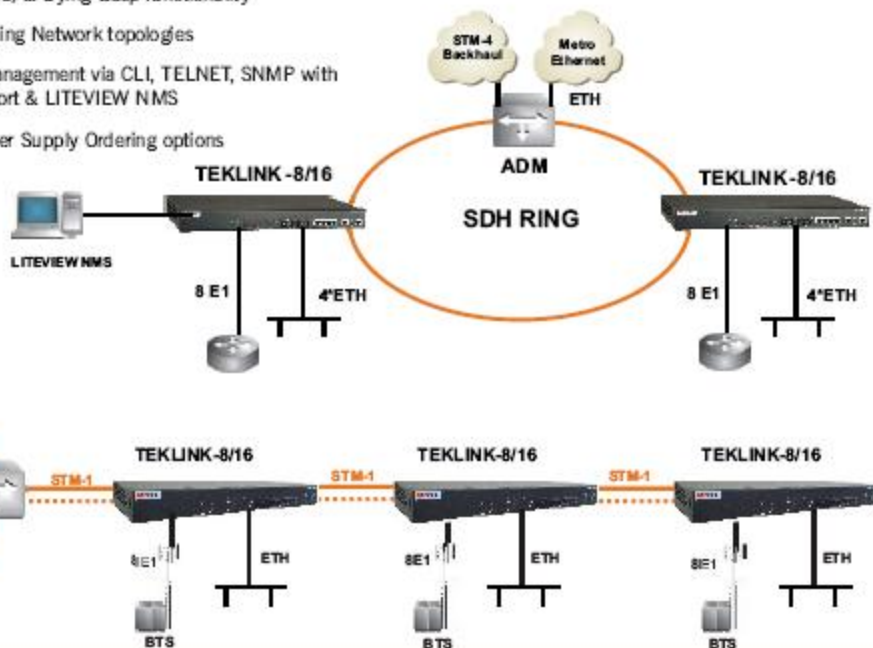
- 6U High Multi-Service Modular Access Concentrator with 11 I/O Slots
- Integrated with Digital/Analog Access, Cross Connect functionality
- 256Mbps Cross Connect Backplane capacity
- Add Drop Mux (ADM) or Terminal Mux (TM) Modes of Operation
- Flexible Network Topologies: Point to Point, Chain, Star, Ring & Mesh
- Conforms to relevant Bellcore, ITU & IEEE standards
- Hot Swappable I/O Modules
- Redundancy support for power Supply, STM-1 & Management modules
- Supports STM-1 & E1 Uplink Interfaces
- Supports High Speed Interfaces: E1, V.35 & Fast Ethernet
- Supports Low Speed Interfaces: Asynchronous & Synchronous RS-232/V.24
- Supports Voice Interfaces: FXS, FXO, E&M
- Inband & Out of Band Management with CLI, TELNET, SNMP & LITEVIEW NMS



- Carrier Class STM-1 Mux carrying up to 63*E1 traffic
- Terminal MUX & Add/Drop Mux operation modes
- Supports Point To Point, Chain & Ring Network topologies
- Dual STM-1 Interfaces for individual operation or 1+1 protection
- Auto Laser Shutdown (ALS) functionality
- Local & Remote loopbacks for E1 & STM-1 ports
- Inband & Out of Band Management via CLI, TELNET, SNMP with Embedded Channel support & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



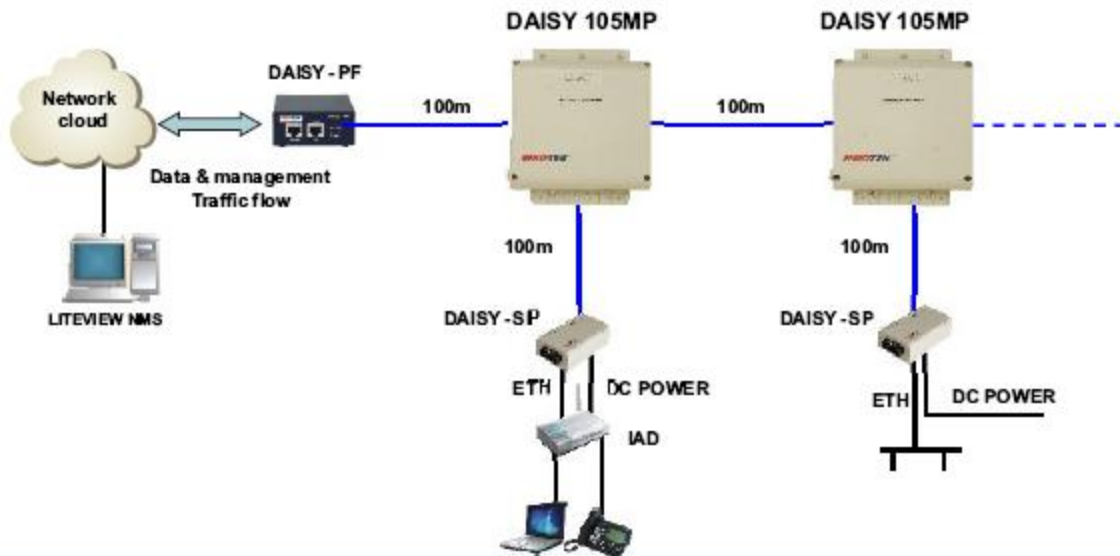
- Multi-Service STM-1 MUX transporting legacy TDM & Ethernet traffic over SDH
- Add Drop Mux (ADM) or Terminal Mux (TM) Modes of Operation
- 8/16 Balanced E1 & 4*10/100Base-T interfaces
- 1+1 Protection for STM-1 uplink ports
- GFP, LCAS, VCAT & LAPS support for Ethernet traffic
- Auto Laser Shutdown (ALS) & Dying Gasp functionality
- Point To Point, Chain & Ring Network topologies
- Inband & Out of Band Management via CLI, TELNET, SNMP with Embedded Channel support & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



- TDMoP Access Gateway offering extension of legacy TDM traffic over Packet Switched Networks
- 4*E1, 4*10/100Base-T & 1*GbE Interfaces
- CES & SATOP Payload types supported
- MPLS & IP Networks supported
- QoS & VLAN support for Ethernet traffic
- Configurable jitter buffer & MTU size to compensate for throughput & packet delay variation
- Local & Remote Management with CLI, TELNET, SNMP & LITEVIEW NMS
- AC & DC Power Supply Ordering options



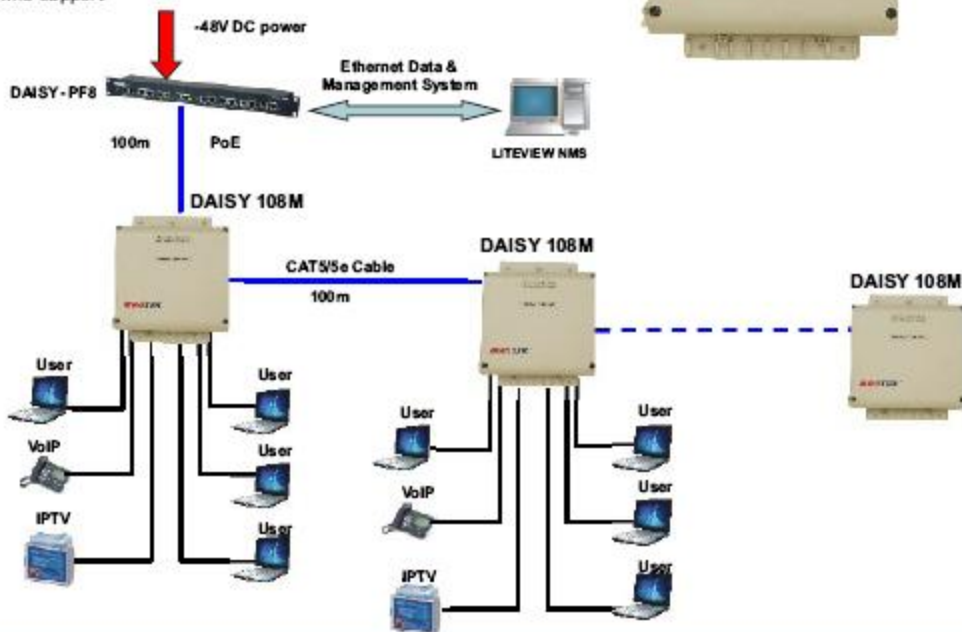
- Managed PoE Switch
- 2 Network PoE Ports and 3 User PoE Ports
- IP64 compliant weather proof enclosure
- Short circuit & Power surge protection
- Port to port isolation between user ports
- LITEVIEW NMS support



DAISY-108M

PoE Switch

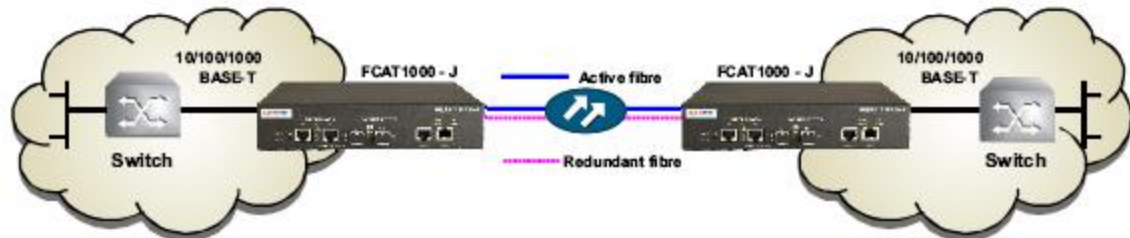
- Managed PoE Switch
- 2 Network PoE ports and 6*10/100Base-T user ports
- IP64 compliant weather proof enclosure
- Short circuit & Power surge protection
- Port to port isolation between user ports
- Auto MDI/MDIX on all ports
- Extends Ethernet services up to 500 meters over Daisy Chain
- LITEVIEW NMS support



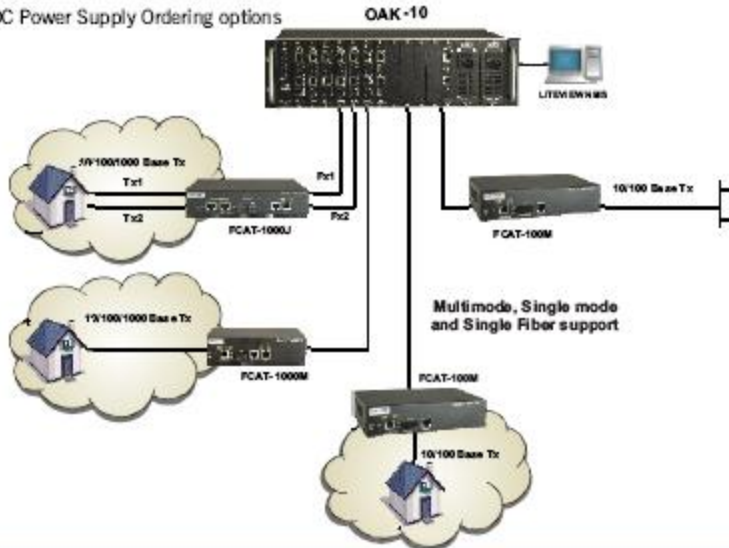
- Single/Dual channel standalone Gigabit Media Converter
 - 1 or 2 nos - 10/100/1000Mbps Copper ports
 - 1 or 2 nos - 1000Base-X Gigabit Fiber ports (SFPs)
- Jumbo Frame & flow control support
- Dying gasp alarm generation/clear (IEEE 802.3ah)
- Multimode, Single mode & Single fiber options
- Maximum distance up to 100Kms
- Inband & Out-of-Band management support with CLI, Telnet, Web Interface, SNMP & LITEVIEW NMS
- AC & DC Power Supply ordering options



- Point-to-point application with optical redundancy

Location - A**Location - B**

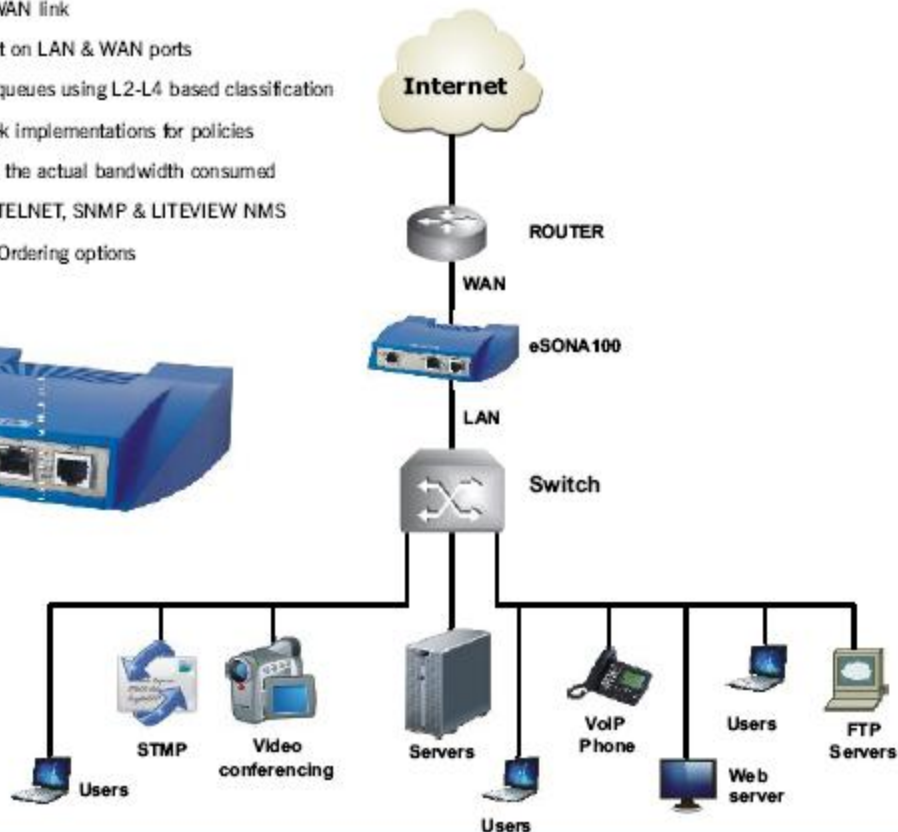
- 3U, 19" Rack Mountable Managed chassis with 10 Line cards, 2 Management modules and 2 power supply modules for Redundancy
- Line cards with
 - a) Two - 10/100/1000Mbps (GE) Media converters
 - b) Two - 10/100Mbps (Fast Ethernet) Media converter
- Maximum of 20 Gigabit Ethernet or Fast Ethernet Media conversions from a single rack
- SC Fiber interfaces on IO modules
- Maximum distance up to 100Kms
- Management through console, Telnet, SNMP v2/v3 Agent
- LITEVIEW Manager – NMS for centralized management
- Redundant AC & DC Power Supply Ordering options



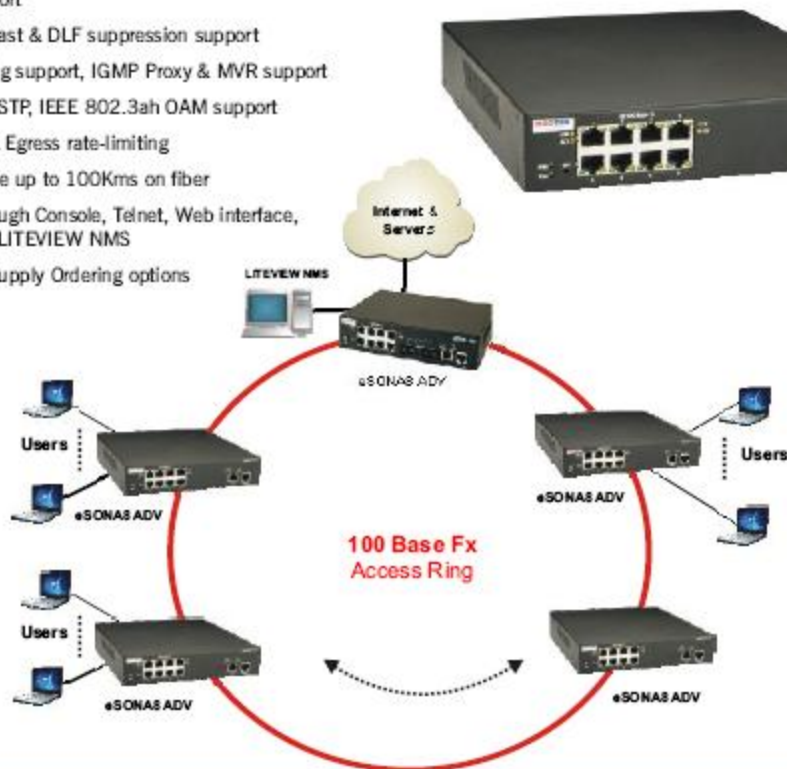
- 3U, 19" Rack Mountable Unmanaged Fast/Gigabit Ethernet Media converter rack
- 13 I/O slots to populate Fast Ethernet & Gigabit Ethernet line cards
- Two power supply modules for redundancy
- Line cards with
 - a) Two - 10/100/1000Mbps (GE) Media converters
 - b) Two - 10/100Mbps (Fast Ethernet) Media converters
- Maximum of 26 Gigabit Ethernet or Fast Ethernet media conversions from a single rack
- SC Fiber interfaces on IO modules
- Maximum distance up to 100Kms
- Redundant AC & DC Power Supply Ordering options



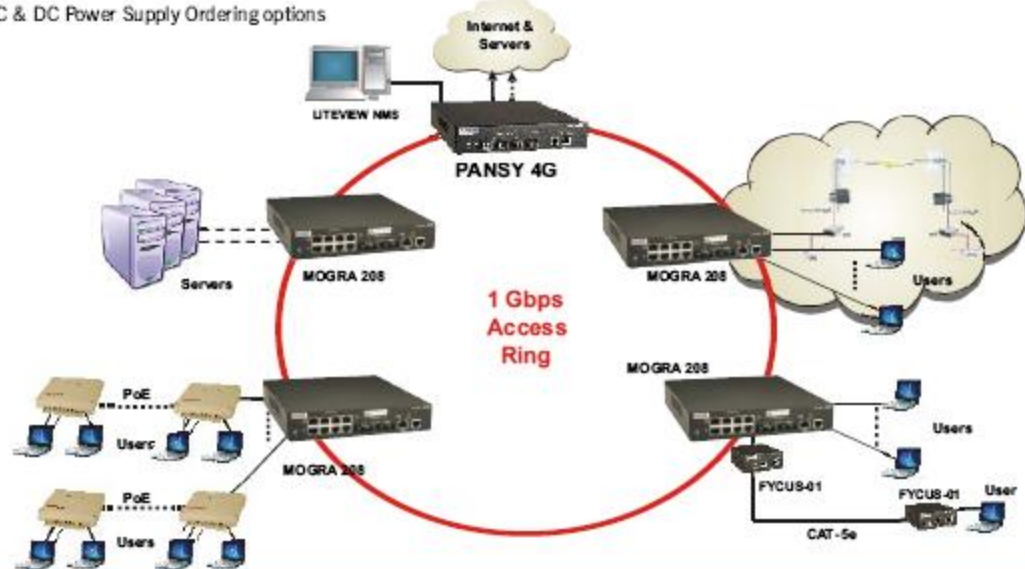
- Wire-speed Bandwidth Manager with 2 Fast Ethernet ports (LAN & WAN)
- Optional Fiber port for WAN link
- Auto MDI/MDI-X support on LAN & WAN ports
- Up to 88 bi-directional queues using L2-L4 based classification
- Time of Day/Day of Week implementations for policies
- Metering information on the actual bandwidth consumed
- Management with CLI, TELNET, SNMP & LITEVIEW NMS
- AC & DC Power Supply Ordering options



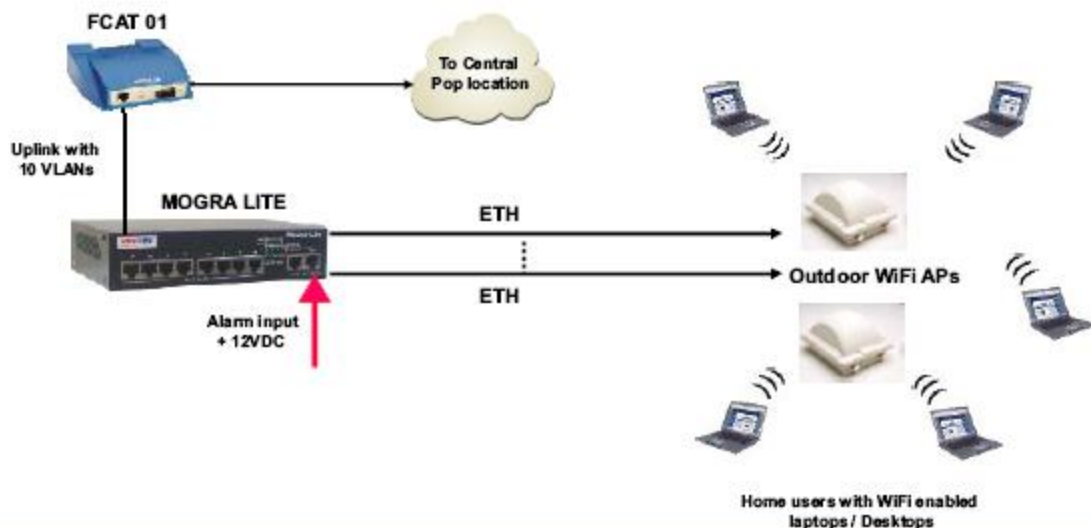
- 10 port Managed Ethernet Aggregator
- Typical configuration: 2 x 100Base-Fx Uplink ports & 8 x 10/100Base-T ports
- Optional configuration with 10 x 10/100 Base-T ports
- 4096 VLAN support
- Broadcast, Multicast & DLF suppression support
- IGMP V3 Snooping support, IGMP Proxy & MVR support
- STP, RSTP and MSTP, IEEE 802.3ah OAM support
- Per port Ingress & Egress rate-limiting
- Maximum distance up to 100Kms on fiber
- Management through Console, Telnet, Web interface, SNMP support & LITEVIEW NMS
- AC & DC Power Supply Ordering options



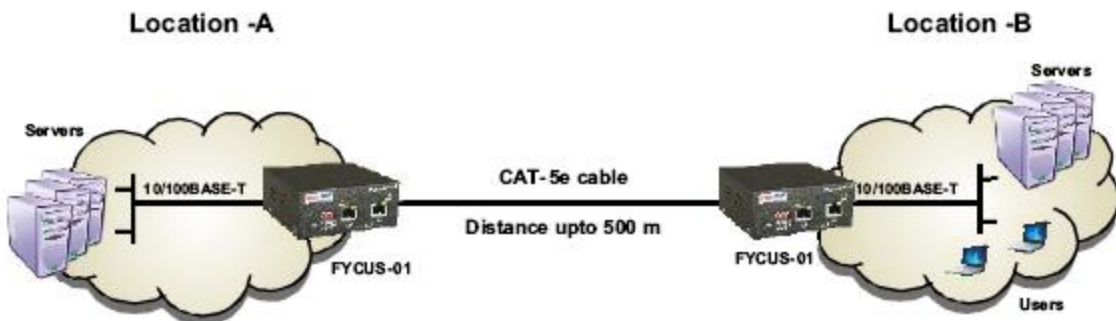
- 10 port Managed Ethernet Aggregator
- 2 x 1000Base-X Uplink ports & 8 x 10/100Base-T ports
- 4096 VLAN & Port mirroring option
- Double Tagging on Gigabit ports
- Broadcast, Multicast & DLF suppression support
- IGMP V3 Snooping support, IGMP Proxy & MVR support
- IEEE 802.1p priority with 4 queues, IEEE802.3ad/LACP
- Maximum distance up to 100Kms on fiber
- Management through Console, Telnet, SNMP support & LITEVIEW NMS
- AC & DC Power Supply Ordering options



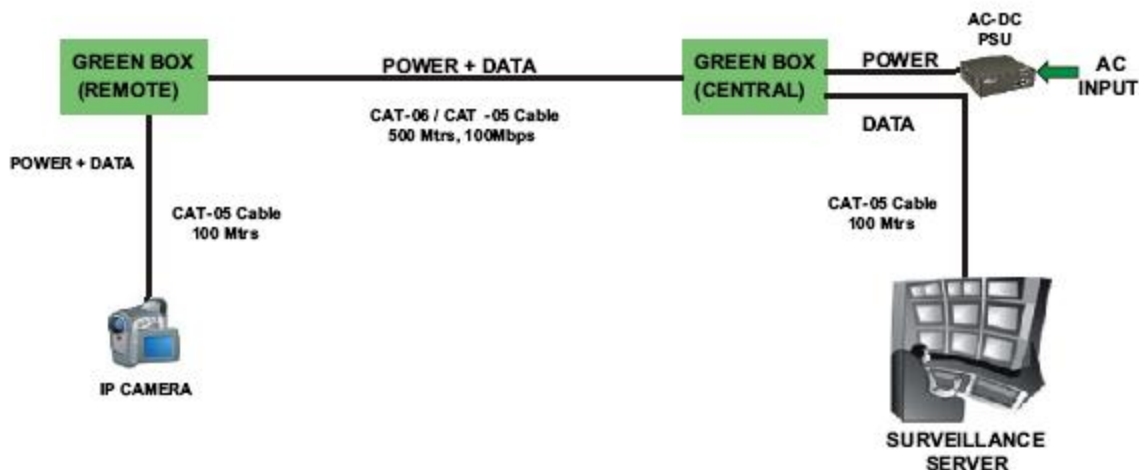
- 8-port Fast Ethernet Edge switch
- Port isolation & Broadcast control
- Egress & Ingress rate control
- 4096 VLAN & Port mirroring option
- Monitors up to 3 alarms from dry relay contacts and built-in sensors.
- Management through Console, Telnet, SNMP support & LITEVIEW NMS
- 12 VDC power and Alarm inputs via a single RJ45 connector



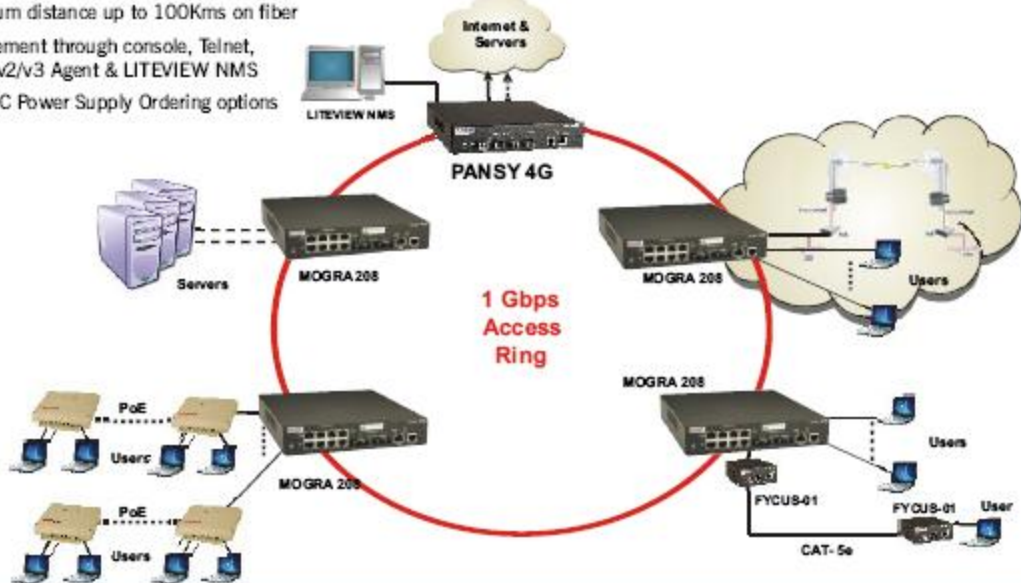
- Long reach Ethernet supporting distances up to 500meters
- One standard 100Mbps Ethernet Port for 100m
- One Network Ethernet port for extended reach up to 500m
- DIP Switch for data rates & wire-pair selection
- AC & DC Power Supply Ordering options



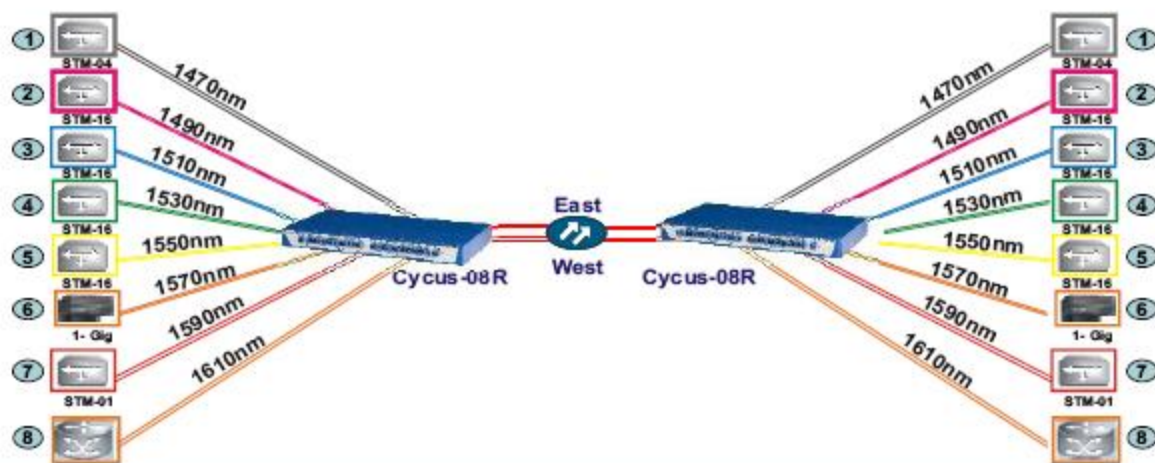
- Standard 10/100Mbps LAN Ethernet Port (1 no), complying IEEE 802.3, IEEE 802.3u
- WAN Ethernet port (1 no) for long reach upto 500m
- Supports Ethernet Application that requires 10/100Mbps greater than 100mtrs upto 700 mtrs with PoE
- Peer device (CPE) powered by CO (PoE) and also the Access point and IP camera connected to the CPE.
- 802.3af compliant PoE from the CPE.
- 48V-55V bidirectional power input
- DIP Switch for configuring different types of data rates & wire-pair selection
- LED indications for Link Up/Down, Data transmit / receive & Speed of Ethernet connectivity



- Carrier Class Managed Gigabit Ethernet Aggregation Switch.
- Supports four Gigabit Ethernet ports
 - a) Two 10/100/1000 Tx Ports
 - b) Two 1000Base-X ports (SFP)
- Options variant with 4 x 1000 Base-X ports
- Jumbo Frame (9728 bytes) support
- Auto MDI/MDI-X support for copper ports
- 4K 802.1Q VLAN support
- Supports up to 512 Traffic classifications based on L2-L4 parameters
- Maximum distance up to 100Kms on fiber
- Management through console, Telnet, SNMP v2/v3 Agent & LITEVIEW NMS
- AC & DC Power Supply Ordering options



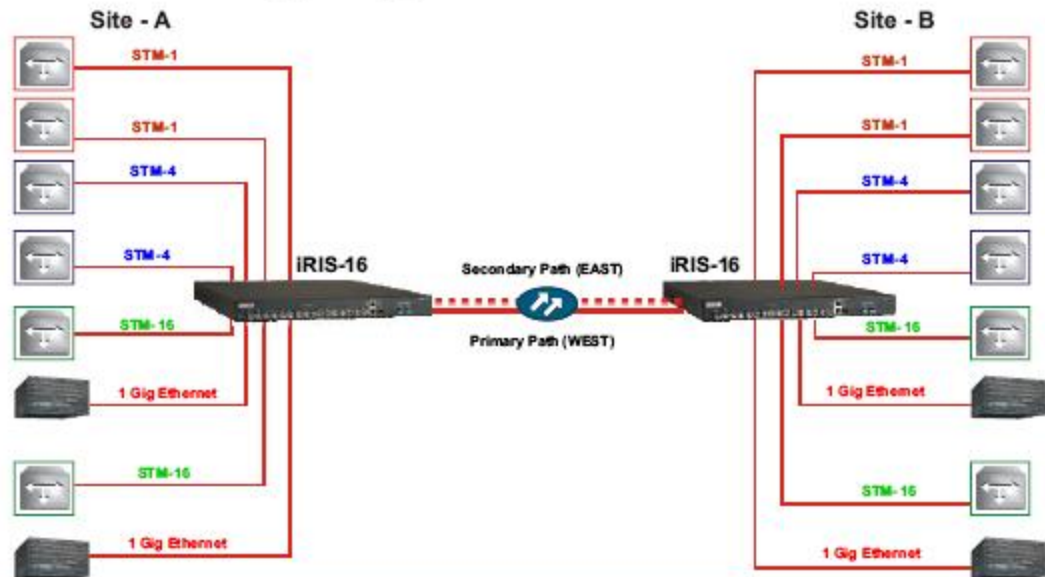
- Multiplexing 8 different CWDM channels, each carrying up to 2.5Gbps of bandwidth
- 1471 – 1611nm band, 20nm spacing between the adjacent CWDM channels
- OADM support for ADD/DROP/Bypass
- LC connector for user and Network (East/West)
- Passive module & requires no power
- Protocol transparent & Very low insertion loss



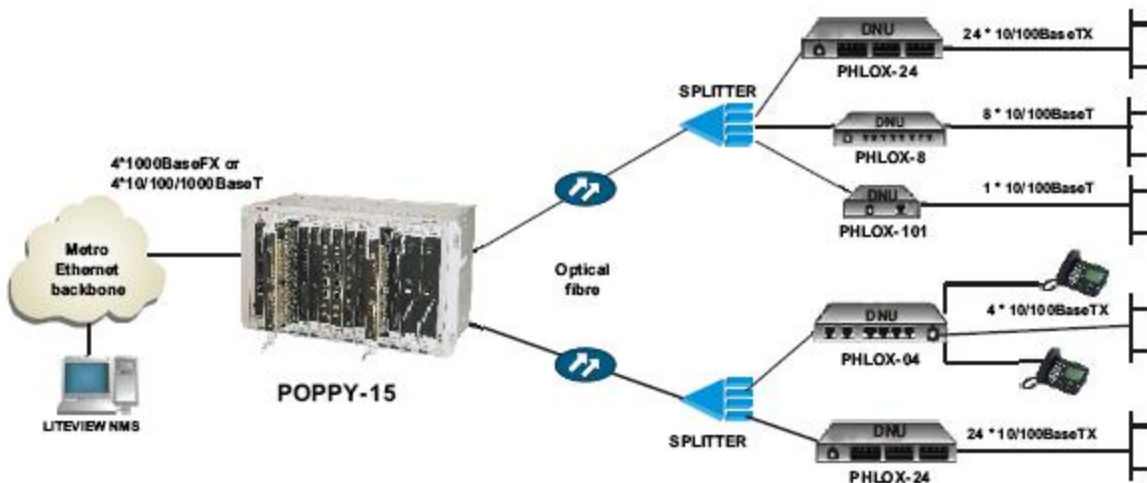
IRIS Family (IRIS-16, IRIS-08, IRIS-02 & IRIS-01)

Multirate Optical Transport System

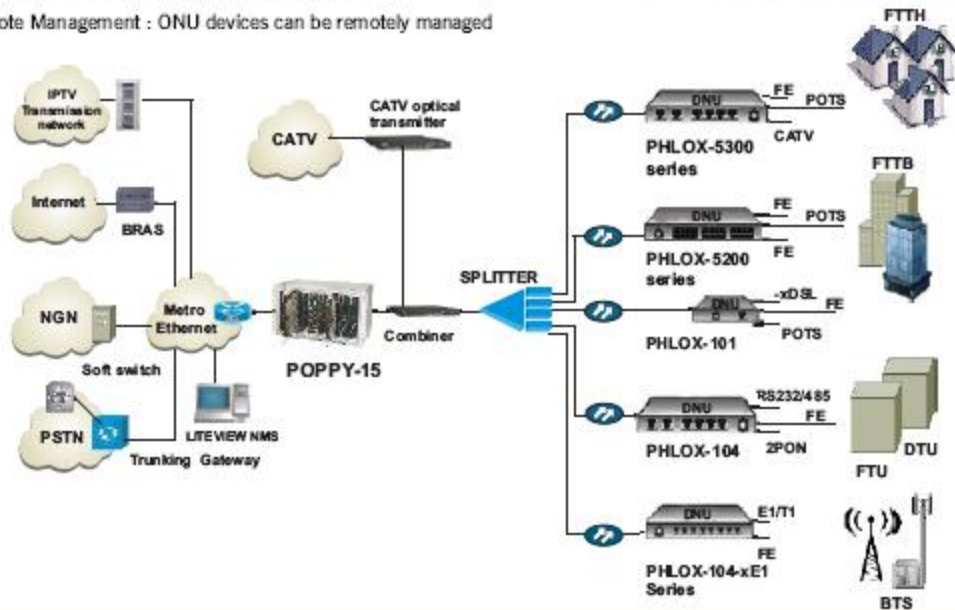
- 8-channel CWDM optical multiplexer & de-multiplexer
- Completely managed through a separate out-of-band optic circuit
- Protocol independent user channels
- Redundant user & network ports with Power supply redundancy
- Loop back options at user and network ports for Diagnostics
- Multi-rate support up to 2.5Gbps per channel
- Optical data-path switch-over less than 20ms
- Supports Linear, Ring or Point to Point topologies
- Management with Console, Telnet & LITEVIEW NMS
- Redundant AC & DC Power Supply Ordering options



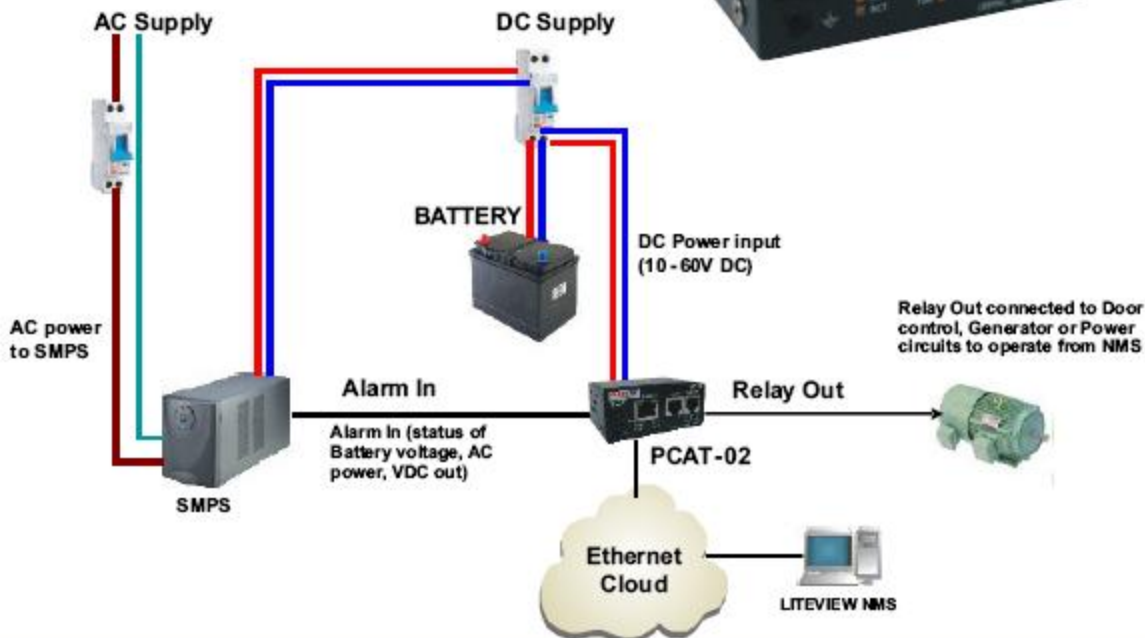
- Enhanced Optical Line Terminal with various line modules, including 2/4/10 GE line module, 2/4 PON line module.
- Port rate limiting : Based on ingress and egress of each port, 64K increment
- Flexibility / Modules Supported : 2*10 GE interface and 2 GE interface, 4 PON interfaces line module, 2 PON interfaces line module, 2 gigabit ethernet combo interface, 4 Gigabit ethernet combo interface
- Flexibility Multicast : IGMP Snooping V1/V2/V3, IGMP Proxy, Multicast VLAN Registration (MVR), Support 1024 multicast groups
- Back plane : Supports 256 Gbps
- Management : Local management through console port, Remote management through Telnet, SNMP V1/V2/V3 and LITEVIEW NMS



- Cost-efficient GEPON ONU device, designed to access residential and business subscribers into PON network.
- Port rate limiting : Based on ingress and egress of each port, 64K increment
- Together with POPPY-15 OLT device, it provides full L2 switching functionality for data and IPTV services.
- MTU : 1536 bytes
- Storm control : Support storm control broadcast, multicast and DLF according to the configured PPS (packets per second)
- VLAN : IEEE802.1Q, 4K active VLAN, VLAN stacking (Q-in-Q)
- Network Management : Supports SNMP management
- OAM : Supports IEEE 802.3ah standard OAM
- Remote Management : ONU devices can be remotely managed



- Manageable Alarm monitor for detection of 3 Alarms (dry relay contact)
- 2 Relays can be operated from LITEVIEW NMS
- Optional variant with built-in AC fail and DC low sensors
- Dedicated Ethernet port for Management
- Configurable alarm names from LITEVIEW NMS
- Works on power in the range of 10-60 VDC



WIRELESS

EXORA-08

Outdoor Wi-Fi Base Station

- Outdoor Wi-Fi Base Station utilizing Smart Antenna technology and signal processing algorithm for extended reach in NLOS environments
- Conforming to IEEE 802.11a/b/g standards
- Dual Diversity Advanced Smart Antenna for flexible 90° to 360° coverage with minimal holes in dense urban areas
- Transmit & Receive Diversity
- Automatic Channel Assignment
- Multi-Radio for maximizing performance and providing access redundancy
- Backhaul Resilience & 1+1 Protective Switching for guaranteed access
- Adaptive Interference Control to mitigate Interference effects under any site conditions



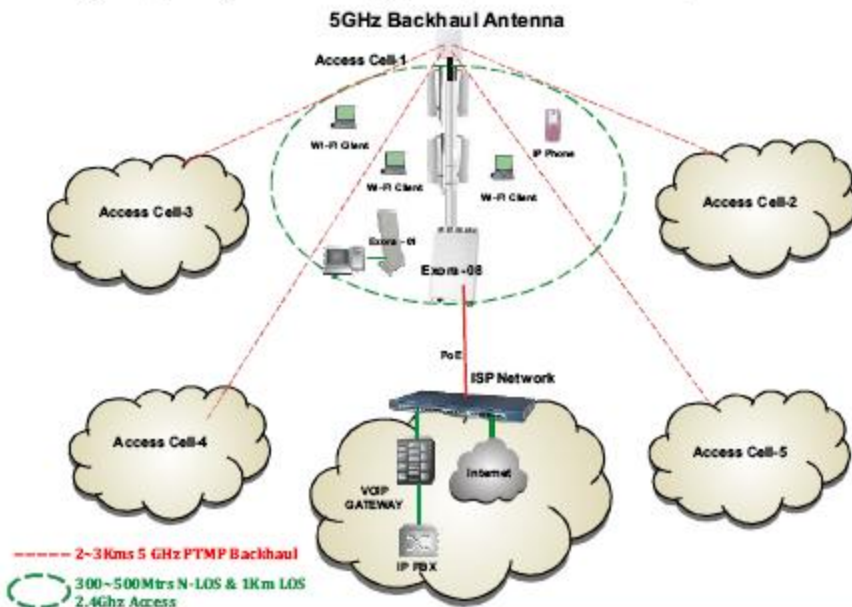
EXORA-02

Wi-Fi Access Point / Bridge

- Wi-Fi Access point/Bridge utilizing super Wi-Fi systems for enhanced capacity, extended coverage
- Highest Possible Throughput with IEEE 802.11n standard & backward compatible to 802.11a/b/g standards
- Utilizes MIMO technology for extending Wi-Fi coverage in challenging RF environments
- Light-Weight & Robust Weatherproof design with in-built Lightning protection
- Super Wi-Fi Mode to increase system capacity while working opposite EXORA - 08
- In-built dual polarized antennas for PTP & PTMP bridging
- Ease of Installation with Web Management



- Outdoor WI-FI Access point/CPE employing smart signal processing algorithms and antenna design for enhanced WI-FI coverage for dense areas
- Conforming to IEEE 802.11 b/g standards
- Optimal design with +/-45° cross-polarized antennas providing 3dB more gain as compared to V-H polarized CPE's improving coverage in less accessible areas
- Transmit & Receive Antenna diversity
- Automatic Channel Assignment for ease of installation
- Compliant with IP55 weatherproof standards for direct outdoor installation
- Remote Web Management providing features including per client/VAP bandwidth & client performance statistics





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