



Introduction

UTL VMUX (Versatile Multiplexer) is an access network product which provides various services like

- ❖ Voice
- ❖ Data
- ❖ ISDN.

UTL VMUX is modular in nature and scalable with easily configurable interface types. It is an integrated system designed to provide cost effective solution for extending the services from service providers location to a cluster of subscribers .VMUX unit provides 30 Channels expandable upto 120 voice channels and can configure number of data interfaces to a maximum of four E1 lines. Redundancy is provided for E1 lines .It can be managed through Network Management System (NMS)

System Features

- Provides interface for 30 lines of 64kbps voice/data channels expandable upto 120 channels
- E1 lines add/drop facility
- Optional protection line for the aggregate stream
- Any interface card can be jacked into any of the available slots
- User friendly PC-based GUI NMS
- Ethernet Interface
- Visual and Audio alarms
- Extensive diagnostic options through NMS
- Monitoring of the remote MUX status
- Pluggable modules for 2W / 4W analog interface

SYSTEM SPECIFICATIONS

- Number of channels : 30 lines
- Physical dimensions : **(L*W*H)**
482mm*241.5mm* 411.5mm
- **Power Supply :**
 - -48V nominal (-40 to -60V)
 - Reverse polarity protection for the input supply
 - Over voltage, short circuit, over load protection for all derived DC voltages

Service capabilities:

- POTS (Subscriber end interface & Exchange end)
- 64Kb/s digital data (ITU-T G.703 interface)
- Coin collection box (CCB) Pay phone interface
- 2 wire and 4 wire E & M interface
- 64 Kbps Line Driver
- Optional Line Card
- N*64 Kbps G703 interface

Modularity

- Modular in design, capable of up gradation

Environmental

- Operating temp : 0°C to 50° C
- Relative humidity : 10% to 90%

Voice Frequency Transmission

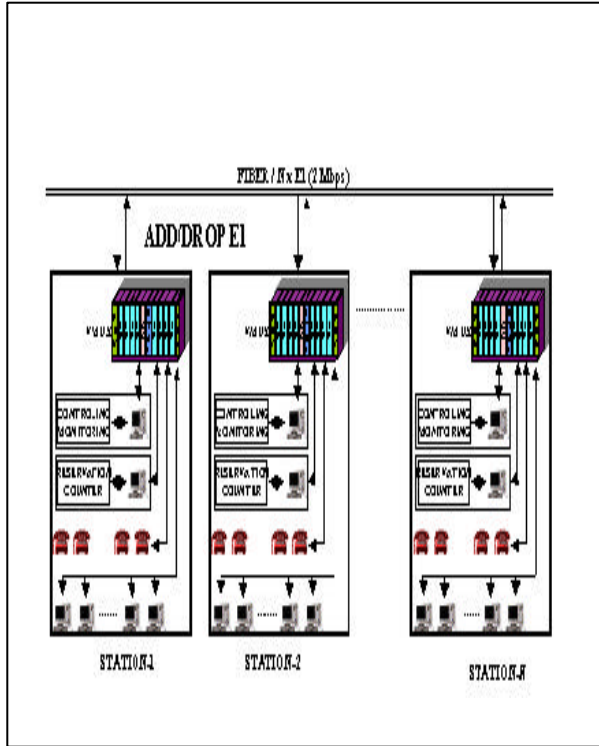
- End-to-end loss : Max 3dB
- Return Loss:
 - 300 Hz to 500 Hz - > 12 dB
 - 500Hz to 3KHz - > 15 dB
- Idle Channel Noise <-65dBmOp
- Data bit rate : 64Kbps +/-100 ppm

Network Management System (NMS)

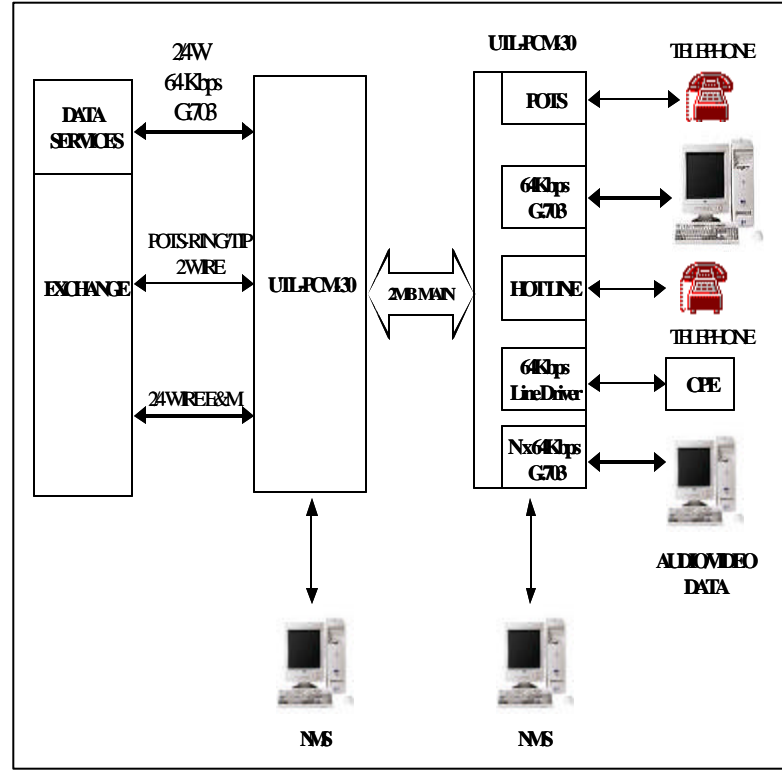
- Fault Management
- Configuration Management
- Alarm Management
- Performance Management
- Security Management

Applications

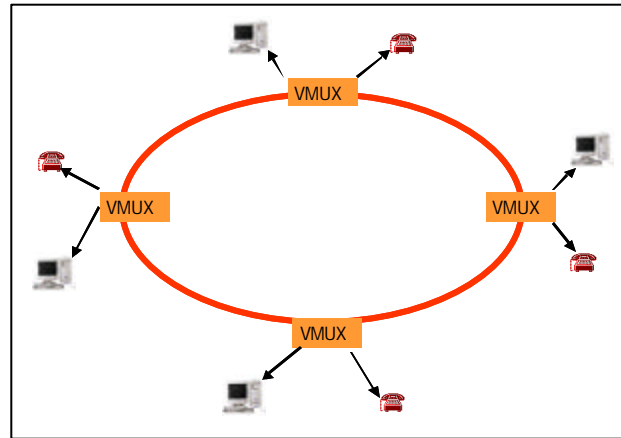
ADD/DROP Application



Exchange to Subscriber Interface



STM RING



Benefits

- Flexible configuration as per the customer requirement
- E1 redundancy is provided for uninterrupted functioning
- It is a cost effective solution as Various interfaces are inbuilt to the system
- Compact size –6U better utilization of Rack space
- Voice and data are available on a single platform
- The modularity lets the unit adapt and grow as your network expands.