



UMux-250

Universal E1/IP Multiplex Access Node

Description

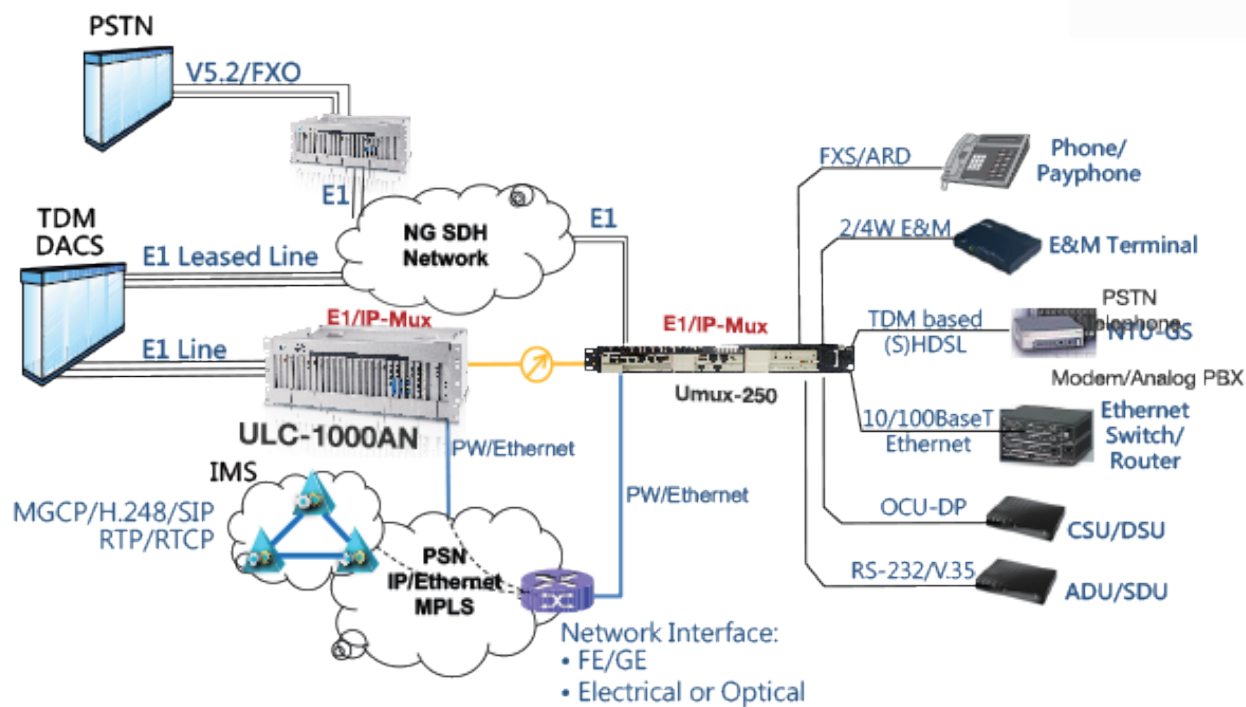
Keeping with the current trend of full integration TDM and IP packetized Multiplexer Access Node. UMux-250, Universal E1/IP Multiplex Access Node, can be configured to deploy a wide range of narrowband voice and data applications, to subscribers over a copper wireline network infrastructure.

The UMux-250 is a compact size universal multiplexer, and most suitable to be deployed in space limited telecom cabinet or equipment room at remote site, using various transmission media connecting to central office site. It enables migration from legacy TDM network to IP-based Next Generation Network. It provides operators with maximum flexibility for service access, enabling efficient and effective deployment of new services without the need for additional investment in infrastructure.

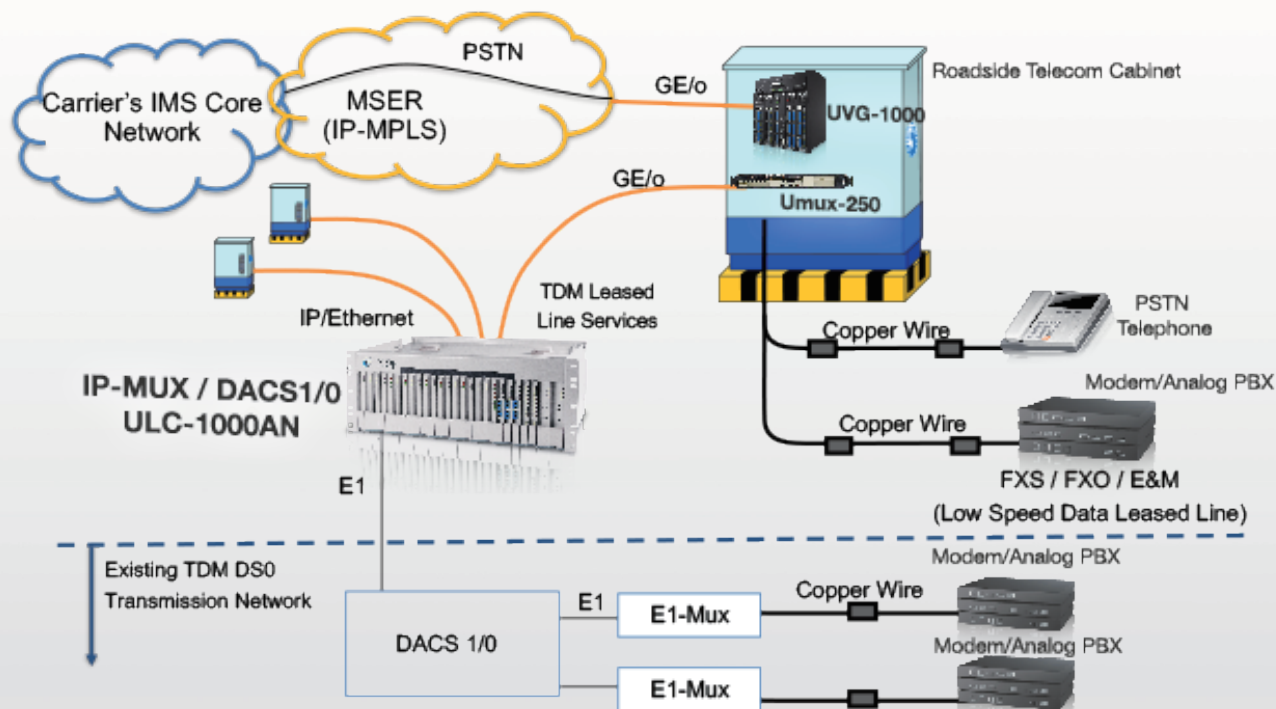
- ◆ Combination of Traditional TDM Services and IP-based NGN Services in a Single Universal Platform
- ◆ Integrated High speed and Reliable Transmission System
- ◆ Compact and Flexible Modularized System Design
- ◆ Comprehensive NMS Features for Access Network Management
- ◆ An easy way of migration from TDM network to NGN network
- ◆ Protect the values of existing equipment investment
- ◆ Lower capital investment and network operation cost

Application

Universal of E1/IP Multiplexer



Analog and Low-speed Data Leased Line over Data Network



Main Feature

◆ TDM-based Features:

- Open PSTN interfaces: V5.2 or 2-wire analog, connections to any LE for POTS applications Analog Leased
- Line with or without E&M Signaling
- Multi-rates Data Leased Line with different kind of interface, V.11, V.28, V.35, OCU-DP or G.SHDSL
- DS0 level fully non-blocking cross-connect and grooming

◆ VoIP Access Features:

- Comply with standardized IP-based control protocols, H.248 / MGCP / SIP
- Bi-directionally convert voice formats between TDM-based PCM payload and IP-based G.711, G.723, G.726 or G.729 payload
- Voice Activation Detection (VAD)
- Comfort Noise Generation (CNG)
- T.38 Fax over IP functionality
- Support ISDN PRA over IP application

◆ Integrated Transmission System

- Variety of Transmission Interfaces: E1, TDMoE Pseudo-Wire (PW), FE/GE electrical/optical
- Variety of Network Topologies: Point-to-point, Point-to-multi-point

◆ Network Management and Maintenance

- Comprehensive Network Management Features: CM, PM, FM, SM and Inventory
- Management for overall Access Network
- Integrate Line Testing Features for easy maintenance
- Scalable Management Capacity for Different size of Access Network
- User Friendly Interface for easy operation



Specifications

Common Unit

UNIT	UNIT DESCRIPTION
GE-SW	Gigabit Ethernet Switch Unit
MGU	VoIP Media Gateway Unit
PRI-U	ISDN PRI Gateway Unit
CPU2	Central Processing Unit
L-PSU	Local Exchange Terminal Power Supply Unit
R-PSU	Remote Subscriber Terminal Power Supply Unit
V5P	V5 Processing Unit

Voice Channel Unit

UNIT	UNIT DESCRIPTION	No.of port
LI-POTS	Local Exchange International POTS Channel Unit	6
RI-POTS	Remote Subscriber International POTS Channel Unit	6
LI-APOTS	Local Exchange International Advanced POTS Channel Unit	6
RI-APOTS	Remote Subscriber International Advanced POTS Channel Unit	6
RI-POTSG	Gain Adjustable Remote Subscriber POTS Unit	6
MPI	Magneto Phone Interface	6
E&M6	E&M Channel Unit 6	6

Transceiver Unit

UNIT	UNIT DESCRIPTION
TDMoPE	TDM over Ethernet Pseudowire Unit
FO-XCVR	Single-mode Fiber Optic Transceiver
E1X-XCVR	E1 Transceiver
E1QX-3	Quad E1 Transceiver
E1QX-B	Quad E1 Transceiver Unit via BNC

Data Channel Unit

UNIT	UNIT DESCRIPTION	No.of port
ASDU6	Asynchronous/Synchronous Data Channel Unit	6
CO64	CO-directional 64Kb/s Unit	3
OCU-DP3	Triple multi-rates OCU-DP Unit	3
IDL-128	ISDL 128Kb/s Data Unit	6
N64	Nx64Kb/s V.35 Unit	1
E1V5	V5 Interface Unit	1