

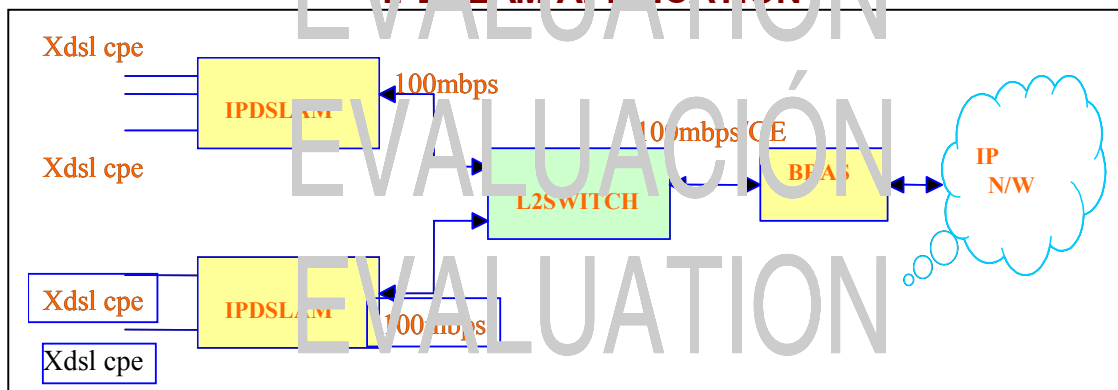
Overview

UTL IPDSLAM is a carrier class DSL access solution tailored to meet customer requirements for high-speed remote access and subscriber aggregation. The IP DSLAM directly and cost-effectively interfaces with the evolving IP network in order to deliver high capacity traffic aggregation and robust, “always on” services. In an increasingly competitive environment, the IP DSLAM affords simple and reliable delivery of high demand applications.

Product Description

The UTL IPDSLAM eliminates ATM core from existing, competitive customer premises equipment and converts them into IP traffic. By directly connecting to an IP router or switch, the IP DSLAM eliminates the bandwidth overhead and provisioning complexities associated with traditional ATM DSLAMs. Decreased dependence on ATM results in the elimination of additional ATM-related elements including Broadband Remote Access Servers (BRAS), greater throughput and simplified management. By utilizing IP instead of ATM in the core, carriers realize significant operational and capital savings. Comprehensive management and operation support is delivered via UTL’s SNMP-based Network Management Software (NMS). NMS is a centralized, client-server based NMS that supports batch configuration mechanism, which can significantly simplify the provisioning task and minimize provisioning errors. Traffic from multiple IPDSLAM can be aggregated and passed on to BPAS for layer 3 functionality.

IPDSLAM APPLICATION



IP DSLAM Product Specification

- System capacity 24 lines
- Two 10/100 Base T

Features supported

- RFC2684 multiprotocol encapsulation over AAL5
- Spanning tree algorithm
- Statistics monitoring on Ethernet and on bridge interface
- IGMP snooping
- VLAN Tagging
- Support for RFC 2684
- Supports the encapsulation of bridged Ethernet PDU over AAL5 using RFC 2684.
- Both VC multiplexing and/or LLC multiplexing is supported.
- Supports transparent bridging, per IEEE 802.1d, between the AAL ports and any ADSL port configured for RFC 1483 bridging encapsulation

ATM Features

- ATM Forum TM 4.1 QoS
- Per VC Shaping/Policing
- EPD/PPD Congestion Management
- ATM OAM I.610 F4/F5 Fault Management per I.610
- ATM Cell Multicast Support
- EDTF Algorithm for CBR/rt_VBR Traffic
- WRR for UBR/ nrt_VBR Traffic
- ATM Statistics: Per VC, Per Port
- Header Translation & Cell Switching
- Required MIBs

Management features

- In-band IP over AAL5
- SNMP V 2 agent
- RS232 CLI
- Telnet
- Remote/local service provisioning, system management and monitoring with SNMP or a CLI (command line interface)

Packet Features

- Multi-Protocol Over ATM RFC 2684 (1483)
- TCP/IP Protocol
- IEEE 802.1D MAC Bridging
- IEEE 802.1P Priority Tagging
- IEEE 802.1Q VLAN Bridging
- IEEE 802.3ad Ethernet Trunking
- IEEE 802.1d Spanning Tree
- Generic VLAN Registration Protocol (GVRP)
- Generic Multicast Registration Protocol (GMRP)
- Per box subtending
- WFQ & RED/WRED Congestion Control
- BOOTP, DHCP, TFTP and Telnet
- IGMP Snooping for IP Multicast

Subscriber interface

Downstream Bit Rate 31 – 3192 Kbps
 Upstream Bit Rate 31 – 396 Kbps

Impedance 135 Ohms
 Power consumption < 2.5 watts per port

Data rate provision Fixed or rate adaptive

Maximum Line loss 60 dB @ 300 kHz
 Performance BER < 10⁻⁷ with 6dB margin in ITU-T G.991.2) test loops

Standard Compliance ITU-T G.991.2

Line Protection As per ITU-T K-20

Input Power DC-42V to -56V