

ADSL/ADSL2/ADSL2+ IP DSLAM



IPDL - 48

Overview

Using the latest ADSL/ADSL2/ADSL2+ / SHDSL technology, FORTH IPDL-48 is designed for NSP(Network Service Provider) to offer excellent services to multiple subscribers with features such as bandwidth management, traffic prioritization, data flow security control... etc.

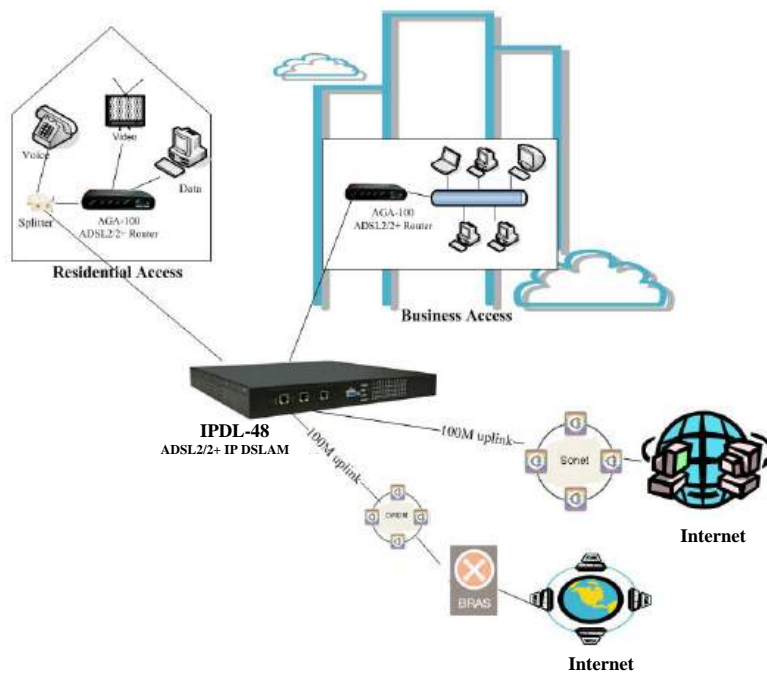
The replaceable 1000BaseT or FX uplink/subtend module provides the flexibility of the network implementation.

Up to 8 IPDL-48 can be cascaded and managed as one unit.

With the local RS-232 and Ethernet Mgmt port, plus in-band SNMP/TELNET channel,

IPDL-48 also provides local and remote management capabilities of CLI, SNMP, and Telnet. Beside, a Microsoft NT/SNMP base GUI EMS system was designed to provide NSP a low-cost but high -value centrally management capability.

Applications :



Cost Saving Solution

- 48 ports ADSL/ADSL2/ADSL2+/SHDSL Subscriber Interface with built-in POTS splitter
- 100/1000BaseT or FX uplink/Subtend Interface (module selectable)
- Subtending capability allows up to 8 units to be cascade and managed as one unit

Excellent Management with Security

- Microsoft NT/SNMP-based GUI EMS
- Local RS-232 CLI, and Ethernet SNMP/TELNET management
- Remote in-band SNMP/TELNET management
- Firmware upload/download via FTP or TFTP

LAN Side (Uplink or Extension Side)



1x1000BaseT-MGNT + 2x1000BaseT



1x1000BaseT-MGNT + 1x1000BaseT +

1x1000Fx(SX/LX//LH/ZX)

Advanced Function for Broadband Service Offering

- Support up to 64*128 MAC address & 2K Multicast MAC address per IPDL-48 system
- Support Static VLAN and Port-based VLAN
- Security: VLAN filtering, MAC Filtering, IP Filtering, Access Control List by MAC and IP address
- Traffic prioritization (802.1p)
- Rate limiting by MAC and IP address
- Uplink Aggregation (802.3ad)
- Feature (SW upgrade) BRAS support 802.1X, DHCP Server & Relay, PPPoE, MPLS, VLAN-based VPN,L3 router feature, L2TP

Microsoft NT/SNMP-base GUI EMS

The screenshot displays the FORTH EMS GUI for an IPDL-48 device. The main window shows a status bar with 'POWER' (green), 'MAINT' (grey), 'ALARM' (grey), and 'MASTER' (grey) indicators. Below the status bar is a grid of 48 ports, with port 1 highlighted in green. The left sidebar shows a tree view of configuration options for the IPDL-48 device, including:

- IPDL-48 FUNCTION
 - Default Setting
 - System Information
 - Current Event
 - System
 - Commit and Reboot
 - Configuration
 - VLAN Configuration
 - Ethernet Configuration
 - Static Multicast Configuration
 - IGMP Configuration
 - DSL
 - Profile Configuration
 - Line Profile Configuration
 - Alarm Profile Configuration
 - Port Configuration
 - PVC Loopback Testing
 - DSL Performance Management
 - Physical Layer Info
 - Channel Layer Info
 - Physical Layer PM
 - Channel Layer PM
 - Exit Agent

Specification

Item	Specifications
System architecture	<ul style="list-style-type: none"> - 48 (IPDL-48) ports ADSL/ADSL2/ADSL2+/SHDSL subscriber interface with built-in POTS splitter - One 1000BaseT MGNT + Two 1000BaseT or One Giga LX Uplink/Subtend Interface (module selectable) - Subtending capability allows up to 8 units to be cascade and managed as one unit - Telco-50 pins Centronic connector for ADSL + POTS IN and POTS OUT
ADSL/ADSL2/ADSL2+ Interface	<ul style="list-style-type: none"> - Downstream DMT data rate from 32 Kbps up to 25 Mbps; Upstream DMT data rate from 32 Kbps to 1 Mbps - Comply with ITU G.992.1(G.DMT); G.DMT.bis; ITU G.992.2(G.Lite); - ANSI T1.413 issue 2; ITU G.994.1(G.handshake) for ADSL; G.992.3 for ADSL2; and G.992.5 for ADSL2+ - Extended power management capabilities to optimize power consumption - Maximum reach exceeding 20Kft(6.1Km)
Protocol Handing Capability	<ul style="list-style-type: none"> - 8 VCs per xDSL ports - 128 MAC address per xDSL ports - 64*128 MAC address - 2K Multicast MAC address - 512 VLAN(any value in 4096) support - Configurable packet size (64 to 1542)
Management	<ul style="list-style-type: none"> - Microsoft NT/SNMP-base GUI EMS - Local RS-232 CLI, and Ethernet SNMP/TELNET management - Remote in-band SNMP/TELNET management - Firmware upload/download via FTP or TFTP - SNMP v1,v2c,v3
Protocol	<ul style="list-style-type: none"> - STP; IGMP snooping; GMRP; GVRP; LACP marker; SNMP/UDP/IP/MAC/Ethernet
ATM MIBs	<ul style="list-style-type: none"> - RFC 1514, 2515 Definitions of managed objects for ATM management
Private MIBs	<ul style="list-style-type: none"> - Any specific private traps
Physical condition	<ul style="list-style-type: none"> Dimension : 400mm(D)x440mm(W)x44mm(H) Weight : 6.8Kg
Power	<ul style="list-style-type: none"> - AC Power: auto ranging 90 ~ 240 VAC, 50 - 60 Hz, IEC connector - DC Power: -42 ~ 56 VDC - Power Consumption: 150watts
Operating Environment	<ul style="list-style-type: none"> - Operating Temperature: 0 ~ 50 °C, 32 ~ 122 °F - Storage Temperature: -30 ~ 70 °C, -22 ~ 158 °F - Humidity: 5% to 90% RH non-condensing