# AH510D

## 1 pair / 2 pair/4 pairs G. SHDSL LAN EXTENDER

### Description

AH510D is a high-speed product of G. SHDSL point-to-point LAN Extender series. Understanding the urgent needs of both bandwidth and routing functions, AH510D is designed to provide the business customer with a high-performance standalone unit with rich routing features via single/two/four pairs G. SHDSL line. Strongly committed to friendly configuration, AH510D has the Web-based and GUI-based configuration features for configuring the unit in the easiest way ever.

### Features

◆ Easy configuration and management with password control for various application environments

◆ Efficient IP routing and transparent learning bridge to support

◆ Broadband Internet services

◆ Getting enhancements and new features via firmware upgrade(tftp/web/ftp)

◆ Built-in 4-port 10/100Mbps switch

◆ Web, Telnet & SSH supported

◆ Support IEEE802.1p with 6 – level Queue

◆ Support VLAN 802.1P, DSCP QoS

◆ Support VLAN Port type Access, Trunk & Hybrid

◆ Support IEEE 802.1ad QinQ

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- ◆ Rate Limit of LAN port (unicast, multicast, broadcast)
- ◆ QoS data rate step by 64Kbps and up to full rate.
- ◆ Support Static route, RIP I, RIP II, OSPF, BGP
- ◆ Support 4094 VLAN and VLAN ID and VLAN tag and remove features
- ◆ Support IEEE 802.3ah EFM bonding
- ◆ Support basic firewall configuration. Support IP / MAC / DNS filter.
- ◆ Support SNMP management with SNMPv1 / SNMPv2 agent and MIB II for connecting OAM system
- ◆ Provides LED indicator to display the working status of the system and each LAN port
- ◆ System tools provides Ping, Trace route & Syslog
- ◆ Provides network security with firewall, IP filter, MAC filter, Domain filter, Network Defense, SPI
- ◆ Support forwarding rule as Masquerading, Virtual Server, DMZ, Upnp

## Specification

- ■ **Physical interfaces**
  - 4 ports RJ45 for 10/100Mbs Ethernet LAN connection
  - 4 RJ-11 port for G. SHDSL connection
  - 1 RJ-45 port for console port
- ■ **G. SHDSL Specification**
  - Downstream and upstream symmetrical data rates up to 60M in EFM with four pairs DSL line for point-to-point connection
  - ITU G.991.2 Annex A, B, F, G
  - Line Code: TC-PAM 16/32/128
  - EFM bonding and SHDSL M-pair mode for 1/2/4 pairs
  - Fixed/ Auto rate negotiation: compliant G.994.1
  - STU-C/STU-R mode selectable
  - Impedance: 135 ohms
  - Performance monitoring: (error seconds, severely error seconds, unavailability seconds)
  - SNR /Attenuation Value calculation
- ■ **Bridging**
  - IEEE 802.1D transparent learning bridge
  - Up to 2048 MAC learning addresses
- ■ **Router**
  - Static route, RIP I, RIP II, OSPF, BGP

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■ **Security**

- Firewall, IP filter, MAC filter, Domain Name filter, Network Defense, SPI

■ **QoS**

- WRR (Weighted Round Robin), SPQ (Strict Priority Queuing)

■ **ACL**

- Layer2 ~ Layer4 - Mac address, VLAN ID, Ethernet Type, IP address, Port number

■ **Storm Control**

- Unicast, Multicast, Broadcast

■ **Network Management**

- Console port
- Web-based GUI for express setup, configuration and management
- Telnet
- Password protected management and access control list for administration
- SNMP management with SNMPv1/SNMPv2c
- Software upgrade via TFTP server, FTP, HTTP
- Supports in-band management (VLAN)

■ **Certification**

- FCC

■ **Hardware**

| Power Supply | Power adapter: AC 100~240V(50~60Hz), 1A |
|---|---|
| LAN Port | RJ-45 x 4 |
| WAN Port | RJ-11 x 4 |
| Console Port | RJ-45 x 1 |
| Operating temperature | 0° to 50°C |
| Storage temperature | -10° to 70°C |
| Housing | Plastic case |
| Dimension | 214mm x 141mm x 35mm (L x W x H) |
| Certificate | CE, FCC, LVD |

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