AH510D 1 / 2 /4 pairs G.SHDSL Router

Description

AH510D is a high-speed product of G.SHDSL series. Understanding the urgent needs of both bandwidth and routing functions, AH510D is designed to provide the enterprise customer a high performance standalone unit with rich of 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.

AH510D is an ideal product for enterprise or mobile base station backhaul for Ethernet and optional E1 access.

Features

- Easy configuration and management with password control for various application environments
- Efficient IP routing and transparent learning bridge to support
- broadband Internet services
- VPN pass-through for safeguarded connections
- Fully ATM protocol stack implementation over SHDSL
- PPPoE support user authentication with PAP / CHAP
- SNMP management with SNMPv1 / SNMPv2 agent and MIB II
- Getting enhancements and new features via firmware upgrade
- Built-in 4-port 10/100Mbps switch
- Web, Telnet supported
- One pair or Two pairs or four pairs DSL
- WAN Port ping Disable /Enable
- Support IEEE802.1p with 4 – level Queue
- Support VLAN 802.1Q

- Support 4094 VLAN and VLAN ID and VLAN tag and remove features
- Support basic firewall configuration. Support IP / MAC / DNS filter.
- Support SNTP protocol to get network time.
- Support CESoP/SAToP for E1 circuit emulation service (optional)

Specification

■ G.SHDSL Specification
- Downstream and upstream symmetrical data rates up to 60M in EFM with four pairs DSL line
- 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 ohm
- Performance monitoring: (error seconds, severely error seconds, unavailability seconds)
- SNR /Attenuation Value calculation

E1 Interface (Optional)
- Support CESoP/SAToP for E1 circuit emulation [RFC 5086, RFC4553]
- Meet ITU G.703, G.704, G.823,G.8261,G.821 and G.826
- Support ACR clock mode

Physical interfaces
- 4 ports RJ45 for 10/100Mbs Ethernet LAN connection
- 1 RJ45 port for 1-2 E1 option (optional)
- 2 RJ-11 port for G.SHDSL connection
- 1 console port for local configuration and management

Software
ATM Protocol
- ATM adaptation layer type 5 (AAL5)
- VC multiplexing and LLC encapsulation
- Multi-protocol over AAL5 (RFC 1483/2684 bridged and routed PDU)
- 1 PVCs

- UNI 3.1/4.0 PVC
- I.610 OAM F5 loopback

PPP Support

- PPP (RFC 1661)
- PPP over Ethernet (RFC 2516)
- User authentication with PAP/CHAP

Routing Capability

- Support IP/TCP/UDP/ARP/ICMP protocols
- IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453)
- Network address translation (NAT/PAT) (RFC1631)
- DNS relay and caching (RFC1034/1035)
- DHCP server (RFC2131/2132)
- Support RIPv1 / RIPv2
- Support IP / MAC / DNS Filter
- Support DDNS function

Bridging

- IEEE 802.1D transparent learning bridge
- Up to 2K MAC learning addresses

Configuration

- Local console (RS232)
- Telnet access
- Web-based GUI (HTTP)

Network Management

- Web-based GUI for express setup, configuration and management
- Menu-driven interface for local console and Telnet access
- Password protected management and access control list for administration
- SNMP management with SNMPv1/SNMPv2c
- Software upgrade via TFTP server

■ Hardware

Power Supply DC Jack	External power adapter 12V DC, 1000mA
LAN Port	RJ45 x 4
Reset Button	1
WAN Port	RJ45 x 2 (DSL1/2, DSL3/4)
Console Port	RJ45 x 1
Operating temperature	0° to 45°C

Storage temperature	-10° to 70°C
Housing	plastic case
Dimension	220mm x 150mm x 40mm (L x W x H)

Ordering

AH510D

-xP Specify the SHDSL loop.
    1P Single pair G.SHDSL only
    2P Two pair G.SHDSL

    4P Four pair G.SHDSL