S-Access

SMARTLINK

Main 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
- Virtual LANs (VLANs) offer significant benefit in terms of efficient use of bandwidth, flexibility, performance and security
- Build-in advanced SPI firewall (Firewall router)
- DMZ host/Multi-DMZ/Multi-NAT enables multiple workstations on the LAN to access the Internet for the cost of IP address
- Fully ATM protocol stack implementation over SHDSL
- PPPoA and PPPoE support user authentication with PAP/CHAP/MS-CHAP
- SNMP management with SNMPv1/SNMPv2 agent and MIB II
- Getting enhancements and new features via Internet software upgrade

Specification

Routing
- Support IP/TCP/UDP/ARP/ICMP/IGMP protocols
- IP routing with static routing and RIPv1/RIPv2 (RFC1058/2453)
- IP multicast and IGMP proxy (RFC1112/2236)
- Network address translation (NAT/PAT) (RFC1631)
- NAT ALGs for ICQ/Netmeeting/MSN/Yahoo Messenger
- DNS relay and caching (RFC1034/1035)
- DHCP server, client and relay (RFC2131/2132)

Bridging
- IEEE 802.1D transparent learning bridge
- IEEE 802.1q VLAN
- Port-based VLAN (4-port router)

Security
- DMZ host/Multi-DMZ/Multi-NAT function
- Virtual server mapping (RFC1631)
- VPN pass-through for PPTP/L2TP/IPSec tunneling
- Natural NAT firewall
- Advanced Stateful packet inspection (SPI) firewall (Firewall Router)
- Application level gateway for URL and keyword blocking (Firewall Router)
- User access control: deny certain PCs access to Internet service (Firewall Router)

Management
- Easy-to-use web-based GUI for quick setup, configuration and management
- Menu-driven interface/Command-line interface (CLI) for local console and Telnet access
- Password protected management and access control list for administration
- SNMP management with SNMPv1/SNMPv2 (RFC1157/1901/1905) agent and MIB II (RFC1213/1493)
- Software upgrade via web-browser/TFTP server

ATM
- Up to 8 PVCs
- OAM F5 AIS/RDI and loopback
- AAL5

ATM QoS
- UBR (Unspecified bit rate)
- CBR (Constant bit rate)
- VBR-rt (Variable bit rate real-time)
- VBR-nrt (Variable bit rate non-real-time)

AAL5 Encapsulation
- VC multiplexing and SNAP/LLC
- Ethernet over ATM (RFC 2684/1483)
- PPP over ATM (RFC 2364)
- Classical IP over ATM (RFC 1577)

PPP
- PPP over Ethernet for fixed and dynamic IP (RFC 2516)
- PPP over ATM for fixed and dynamic IP (RFC 2364)
- User authentication with PAP/CHAP/MS-CHAP

WAN Interface
- SHDSL: ITU-T G.991.2 (Annex A, Annex B) 2 or 4 wire
- Encoding scheme: 16-TCPAM
- Data Rate: N x 64Kbps (N=0~36, 0 for adaptive)
- Impedance: 135 ohms

LAN Interface
- 1 x 10/100 Base-T auto-sensing and auto-negotiation
- 4-Port Switch 10/100 Base-T auto-sensing and auto-negotiation

Hardware Interface
- WAN: RJ-11
- LAN: RJ-45 x 1 or 4-Port Switch
- Console: RS232 female
- RST: Reset button for factory default

Indicators
- General: PWR
- WAN: LNK, ACT
- LAN: 10M/ACT, 100M/ACT
- SHDSL: ALM

Physical/Electrical
- Dimensions: 18.7 x 3.3 x 14.5cm (WxHxD)
- Power: 100~240VAC (via power adapter)
- Power consumption: 9 watts max
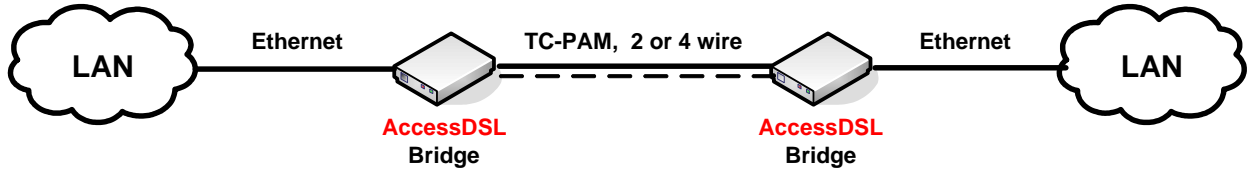- Temperature: 0~45°C
- Humidity: 0%~95%RH (non-condensing)
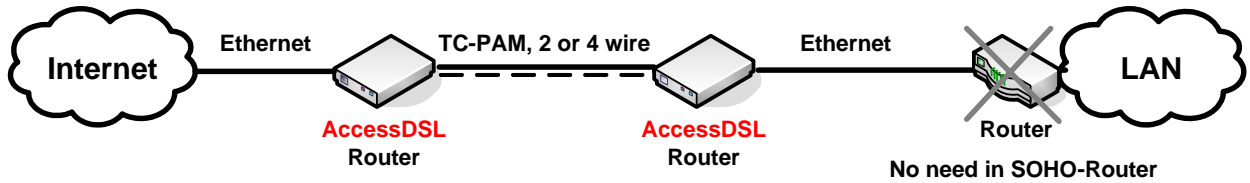
Memory
- 2MB Flash Memory, 8MB SDRAM

S-Access

Applications

Point-to-Point Application

LAN-to-LAN interconnection

Easy and cost-effective Internet Access

Application with DSLAM
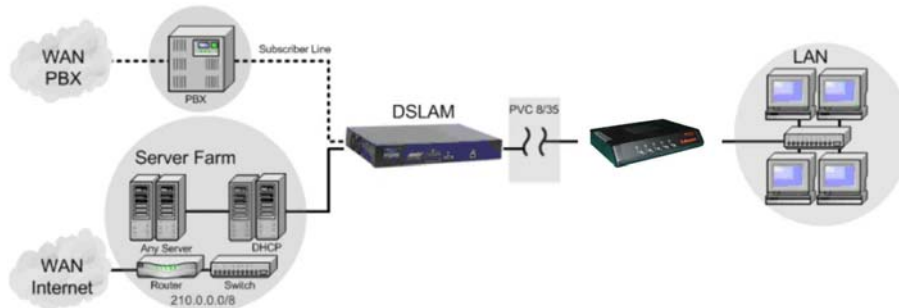
Order Key:

SA-ACE16-SHDSL16	16-Port, 2-wire G.SHDSL DSLAM (ATM)
SA-PAM-SAN-ATM-ETH-2W	ATM G.SHDSL Router/Bridge, 2-Wire
SA-PAM-SAN-ATM-ETH-FW-2W	ATM G.SHDSL Router/Bridge w. Firewall, 2-Wire
SA-PAM-SAN-ATM-4ETH-FW-4W	ATM G.SHDSL Router/Bridge w. Firewall, 2/4-Wire, 4-Port Switch, VLAN