

AS1241

SoHo/SMB-Class ADSL2+ Broadband router



Advanced Layer3 and 2 Features

Extensive IP routing and Ethernet/ATM functionalities with advanced QoS mechanisms

Best Compromise Solution

High quality device with competitive price

Innovative

Cutting edge devices with state-of-the-art technology



AS1241 is an ADSL2/2+ router for high performance connections. AS1241 has a wide range of configurations that allow SoHo and SMB customers to use any type of professional application, including ISP, LAN to LAN, VPN and videoconferencing.

Traffic management capabilities

AS1241 supports traffic shaping and Quality of Service at both layer 3 and layer 2. It also provides interworking mechanisms between the two layers, which allow Telecom Operators the maximum flexibility in defining traffic management policies for transit switches/routers in their access & core networks.

VPN and security features

AS1241 offers firewall functionalities to prevent unauthorized external hosts access to the internal LAN: Access Lists, implementing Stateful Packet Inspection for hacker patterns and DoS attacks. AS1241 allows VPN data protection on transmission between two sites supporting IPinIP, GREinIP, PPTP client/server and IPSec pass through.

Powerful Configuration & Management

AS1241 offers a web-based interface for easy configuration and monitoring. It includes remote management via an internal web server or Telnet server using the Command Line Interface.

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Technical Specifications



Leds Indicators

- PWR
- LAN (1-4)
- Internet
- Line

Physical Interfaces

- 4 switched 10/100 baseT Ethernet ports (LAN0) with RJ-45 connectors
- 1 console port with MiniDIN 8P connector

ADSL Network Interfaces

- ADSL2/2+ interface
- ITU-T G.992.1 (g.dmt), G.992.2 (g.lite)
- ITU-T G.992.3 (ADSL2 or g.dmt.bis)
- ITU-T G.992.4 (g.lite.bis)
- ITU-T G.992.5 (ADSL2+)
- Downstream line rate: up to 24 Mbps
- Upstream line rate: up to 1 Mbps up to 3.5 Mbps with Annex M

IP Functions

- IP Routing
 - RIP v1/v1c/ v2,
 - Enhanced Network Address and Port Translation (NAPT) engine, with multiple ALGs (including SIP, TFTP and H.323)
 - DHCP Server/Client/Relay, DHCP Learning
 - Multicast IGMP v1/v2/v3, Static
- Routing Filtering Redistribution
- Firewalling
 - Extended Access Lists
 - Stateful Packet Inspection including Denial of Service attacks
- IP Services
 - DNS proxy
 - VPN (GRE, IP, PPTP server/client)
 - ICMP, IGMP snooping, Telnet, TFTP

- Layer 3 QoS according to DiffServ model (RFC2474, RFC2475)
- Priority based queuing (Absolute Priority,)
- Extensive monitoring, tracing and troubleshooting facilities

Ethernet Services

- Self Learning Bridge with up to 1k MAC addresses and automatic ageing
- Full-Duplex IEEE 802.3x
- Half-Duplex back pressure flow control
- Automatic MDI/MDI-X crossover
- Broadcast/Multicast storm protection
- VLANs (802.1Q and 802.1p) port based management
 - Tag/Re-Tag/Untag
 - Trunking (VLAN multiplexing)
 - Priority based queuing

ATM

- Services
 - Up to 16 VCCs
 - Class of Services (CBR, VRB-rt, VBR-nrt, UBR+, UBR)
 - Voice and Data packets over different VCCs (VC bundling)
 - Selective CLP marking
 - F4/F5 OAM cells, AIS and RDI
 - ATM: ITU T-I.361, ITU T-I363.5, ITU T-I432, ITU T-I610, ITU T-I731
- Access protocols
 - IP over AAL-5, Ethernet over AAL-5 (RFC2684)
 - PPP over AAL-5 (RFC2364)
 - PPP over Ethernet (RFC2516)
 - LLC/SNAP and VC encapsulation

Authentication

- Client side PAP/CHAP/MS-CHAPv1 and v2 authentication

Management & Configuration

- Password Protected Access
 - 2 login levels
 - Local authentication
- Local Management
 - Console port
 - Extensive CLI
 - Windows* based wizard for configuration and firmware download
- Remote Management
 - CLI (internal Telnet Server)
 - HTTP (embedded WEB Server)
 - SNMP Agent (v1, v2c)
 - SSH
 - Ping MIB
- Firmware upgrades
 - Local and Remote (TFTP client embedded)

Environment

- Operating Temperature: -5° ÷ 45°C (23° ÷ 113°F)
- Non-Operating Temperature: -40° ÷ 70°C (-40° ÷ 158°F)
- Operating Humidity: 10 ÷ 93% (non-condensing)

Compliance & Approvals

- Storage: ETSI EN 300 019-2-1 T 1.3
- Transportation: ETSI EN 300 019-2-2 T 2.3
- Operating Conditions: ETSI EN 300 019-2-3 T 3.2
- EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3
- Protection: ITU-T K.21
- Safety: EN 60950-1

Power

- External power supply
- AC input voltage: 230 Vac
- AC input frequency: 50 Hz
- AC input current: 0.09 A

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