PLANET
Networking & Communication

Product Specification

ADSL Wireless VPN / Firewall Router

ADW-4200A / ADW-4200B

Version 1.0

Change History:

Revision	Date	Author	Change List
Version 1.0	2003/10/24	Alan Huang	Initial release

Author	Alan Huang	Editor:	Alan Huang
Approved by:	Tom Shih	Project Leader:	Tom Shih

PRODUCT DESCRIPTION

The ADW-4200 ADSL Wireless VPN/Firewall Router provides office and residential users the ideal solution for sharing a high-speed ADSL broadband Internet connection on an 11Mbps wireless network and a 10/100Mbps Fast Ethernet backbone. They can support downstream transmission rates of up to 8Mbps and upstream transmission rates of up to 1Mbps. The product support PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1577) to establish a connection with ISP.

ADW-4200 also serves as an Internet firewall, protecting your network from being accessed by outside users. Not only provides the natural firewall function (Network Address Translation, NAT), it also provides rich firewall features to secure a user's network. All incoming data packets are monitored and filtered. Besides, it can also be configured to block internal users from accessing to the Internet.

Furthermore, PPTP and IPSec VPN are also supported. Utilizing 56-bit DES and 168-bit 3DES encryption, header authentication, and Internet Key Exchange (IKE) access control, ADW-4200's full IPSec VPN (virtual Private Network) capability provides complete data security and privacy for access and exchange of sensitive data. The PLANET ADW-4200 offers the security and flexibility to make fast and simple secures ADSL network connections.

PRODUCT FEATURES

- w **ADSL Multi-Mode Standard:** Supports downstream transmission rates of up to 8Mbps and upstream transmission rates of up to 1Mbps. It is compliant with Multi-Mode standard (ANSI T1.413, Issue 2; G.dmt (G.992.1); G.lite (G992.2).
- w **Wireless Ethernet 802.11b access point:** Provides a wireless Ethernet 802.11b access point for extending the communication media to WLAN.
- w **Fast Ethernet Switch:** A 4-port 10/100Mbps fast Ethernet switch is supported in the LAN site and automatic switching between MDI and MDI-X for 10Base-T and 100Base-TX ports is supported.
- w **Multi-Protocol to Establish A Connection**: Supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 1483 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1577) to establish a connection with the ISP. The product also supports VC-based and LLC-based multiplexing.
- w **Universal Plug and Play (UPnP) and UPnP NAT Traversal** UPnP architecture leverages TCP/IP and the Web to enable seamless proximity networking in addition to control and data transfer among networked devices.
- w **NAT and Firewall:** Supports firewall with NAT technology. Automatically detects and blocks the Denial of Service (DoS) attack. The packet filtering and SPI are also supported. The hacker's attack will be recorded associated with timestamp in the security logging area.
- w **Virtual Private Network (VPN):** Users can use embedded PPTP client/server and IPSec supported by this router to make a VPN tunnel. IPSec and PPTP pass-through function is also supported.
- w **Virtual Server & DMZ:** Users can specify some services to be visible from outside users.
- w **Rich Packet Filtering:** Not only filters the packet based on IP address, but also based on Port numbers.
- w **Dynamic Domain Name System (DDNS)** More than 5 DDNS servers supported.
- w **Dynamic Host Control Protocol (DHCP) client and server:** It provides an easy way to connect to Internet and manage the local IP network.
- w **Static and RIP1/2 Routing:** Supports an easy static table or RIP1/2 routing protocol to support routing capability.
- w **SNTP:** An easy way to get the network real time information from an SNTP server.
- w **Rich management interfaces:** Supports flexible management interfaces with Telnet, WEB GUI, and SNMP.

PRODUCT SPECIFICATION

MAIN COMPONENT

Processer: Virata Helium 210-80 (VC45210-PBC80)
ADSL chipset: Globespan GS7070(DSP), GT3180(AFE)
Switch MAC + PHY: KS8995X
RAM : 16MB (128Mbit)
Flash : 2MB (16Mbit)
Wireless: Intersil Prism 2.5 based card

FUNCTIONAL SPECIFICATIONS

| Product		ADSL Wireless VPN/Firewall Router
Model		ADW-4200A / ADW-4200B
Hardware		
Standard		ANSI T1.413 Issue 2 ITU G.992.1 (G.dmt) including - Annex A (ADSL over POTS for ADW-4200A) - Annex B (ADSL over ISDN for ADW-4200B) G.992.2 (G.lite) with fast retrain
Protocol		RFC 2364 - PPP over ATM (LLC/VCMUX) RFC 2516 - PPP over Ethernet (LLC/VCMUX) RFC 1577 - Classic IP over ATM (LLC/VCMUX) RFC 1483 - Bridged IP over ATM (LLC/VCMUX) RFC 1483 - Routed IP over ATM (LLC/VCMUX)
AAL and ATM Support		Integrated ATM AAL5 support 255 VPI plus 65535 VCI address range
Interoperability		Interoperable with major DSLAM suppliers
Ports	LAN	4 (10Base-T/100Base-TX, Auto-Negotiation, Auto MDI/MDI-X)
	Wireless	1 x 802.11b wireless access point
	WAN	1 (RJ-11, 10/100Base-TX, Auto-Negotiation)
LED Indicators		PWR, SYS, LAN 1 to 4, MAIL, PPP, ADSL, WLAN
Button		1 for reset/factory reset
Console		1 x RS-232 Console
ON/OFF switch		1 x ON/OFF switch on rear panel
Software		
Protocol		IP, NAT, PPTP, ARP, ICMP, DHCP, PPPoE, PPPoA, IPoA, PPTP client, RIP1/2
Security		Native NAT firewall, Enhanced policy-based+ SPI firewall, Intrusion Detection, URL Filter, Blocking log, Virtual Server, DMZ
VPN (IPSec)		MD5-HMAC/SHA1-HMAC/Certificates authentication, DES-CBC, 3DES-CBC encryption, Internet Key Exchange, Manual Key Negotiation
VPN tunnels		IPSec: 4, PPTP: 4
Maximum Clients		253
Maximum Concurrent Sessions		1600
DMZ		1
PPTP Pass through		1
IPSec Pass Through		1
Virtual Server		14 predefined, 10 user-defined
DHCP clients		100
Maximum packet filter policy		100
Maximum URL filter rule		Keyword filter: 100; Trusted Domain: 100; Forbidden Domain: 100

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Management	Web browser management, telnet, console, SNMP

PHYSICAL SPECIFICATION

Dimensions

210 mm x 147 mm x 33 mm (L x W x H)

Top panel
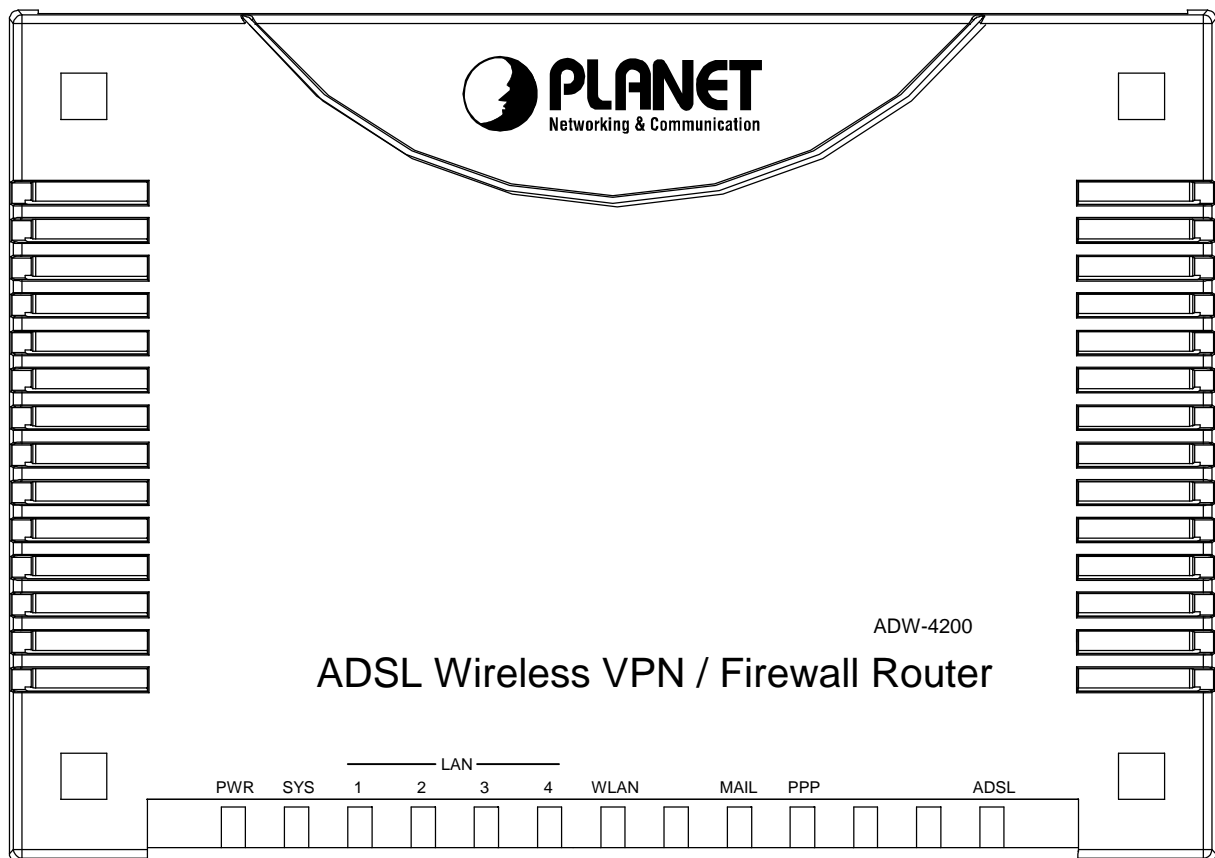
Rear panel
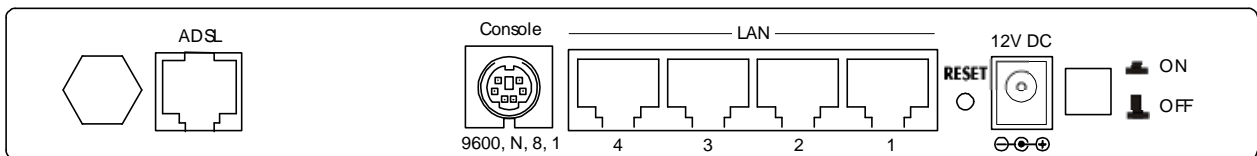
LED, button definition

LED definition:

LED	Meaning
PWR	Lit when power ON
SYS	Lit when system is ready
LAN port 1 ~ 4	Lit when connected to Ethernet device Green for 100Mbps; Orange for 10Mbps Blinking when data transmit/received
WLAN	Lit green when the wireless connection is established. Flashes when sending or receiving data.
MAIL	Lit when there is email in the email account
PPP	Lit when there is a PPPoA/PPPoE connection
ADSL	Lit when successfully connected to an ADSL DSLAM

Button definition

Reset Button	After the device is powered on, press it to reset the device or restore to factory default settings. The operation is as below: **0-3 seconds**: reset the device **3-6 seconds**: no action **6 seconds or above**: restore to factory default settings (this is used when you can not login to the router, e.g. forgot the password)

ENVIRONMENTAL SPECIFICATION

Operating

Temperature: 0~45°C
Relative Humidity: 10~90%(non-condensing)

Storage

Temperature: -10~70°C
Relative Humidity: 10~90%(non-condensing)

ELECTRICAL SPECIFICATION

Input Voltage: 12V DC, 1A maximum
Power consumption   Maximum 10W, 34 BTU

REGULATORY COMPLIANCE

FCC   Part 15 Class B,
CE   EN55022 Class B
      EN55024

RELIABILITY

MTBF > 50,000Hrs @40degree C MIL-STD-781C

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BASIC PACKAGING

- ADW-4200 Unit
- Power Adapter
- Quick Installation Guide
- CD-ROM containing user's manual
- RJ-11 cable
- RJ-45 cable