

# 802.11g Wireless ADSL 2/2+ Router



The PLANET 802.11g Wireless ADSL 2/2+ Router, ADW-4401, provides office and residential users the ideal solution for sharing the high-speed ADSL 2/2+ broadband Internet connection on a 54Mbps wireless network and a 10/100Mbps Fast Ethernet backbone. It can support downstream transmission rates of up to 24Mbps and upstream transmission rates of up to 3.5Mbps. The product supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), PPP over Ethernet (RFC 2516), and RFC 1483 encapsulation over ATM (MER, bridged or routed) to establish a connection with ISP.

Via the user-friendly management interface, ADW-4401 can be managed by workstations used standard web browsers. Furthermore, ADW-4401 provides DHCP server, NAT, Virtual Server, DMZ, access control, IP filter, VPN Pass-Through, DNS Proxy, and UPnP capability.

The ADW-4401 also serves as an Internet firewall, protecting your network from being accessed by outside users. It provides the natural firewall function (Network Address Translation, NAT) and all incoming and outgoing IPs are monitored and filtered as well. Moreover, it can be configured to block internal users who are accessing to the Internet.

## KEY FEATURES

### INTERNET ACCESS FEATURES

- **Shared Internet Access.** All users on the LAN or WLAN can access the Internet through the ADW-4401 used only a single external IP Address. The local (invalid) IP Address is hidden from external sources. This process is called NAT (Network Address Translation).
- **Built-in ADSL 2/2+ Modem.** The ADW-4401 provides ADSL 2/2+ modem and supports all common ADSL connections.
- **PPPoE, PPPoA, Direct Connection Support.** Various WAN connections are supported by ADW-4401.
- **Auto-detection of Internet Connection Method.** In most situations, the ADW-4401 can test your ADSL and Internet connection to determine the connection method used by your ISP.
- **Fixed or Dynamic IP Address.** On the Internet (WAN port) connection, the ADW-4401 supports both Dynamic IP Address (IP Address is allocated on connection) and Fixed IP Address.

### ADVANCED INTERNET FUNCTIONS

- **Virtual Servers.** This feature allows Internet users to access Internet servers on your LAN. The required setup is quick and easy.
- **DMZ Support.** The ADW-4401 can translate public IP addresses into private IP address to allow unrestricted 2-way communication with Servers or individual users on the Internet. This provides the most flexibility to run programs, which could be incompatible in NAT environment.
- **Firewall.** Supports simple firewall with NAT technology and provides option for blocking the access from Internet, like Web, FTP, Telnet, SNMP, and ICMP. It also supports MAC and IP filtering.
- **Universal Plug and Play (UPnP).** UPnP allows automatic discovery and configuration of the Broadband Routers. UPnP is supported by Windows ME, XP, or later.

- **VPN Pass through Support.** PCs with VPN (Virtual Private Networking) software are transparently supported and no configuration is required.
- **RIP1/2 Routing.** It supports RIPv1/2 routing protocol for routing capability.
- **Simple Network Management Protocol (SNMP)** It is an easy way to remotely manage routers via SNMP.

### WIRELESS FEATURES

- **Standards Compliant.** The ADW-4401 complies with the IEEE 802.11g (DSSS) specifications for Wireless LANs. Maximum of 54Mbps are supported.
- **Supports both 802.11b and 802.11g Wireless Stations.** The 802.11g standard provides backward compatibility with the 802.11b standard, so both 802.11b and 802.11g Wireless stations can be used simultaneously.
- **WEP support.** Supports for WEP (Wired Equivalent Privacy). Key sizes of 64 Bit and 128 Bit are supported.
- **WPA support.** WPA\_TKIP and WPA2\_AES encryption are supported.
- **Wireless MAC Access Control.** The Wireless Access Control feature can check the MAC address (hardware address) of Wireless stations to ensure that only trusted Wireless Stations can access your LAN.

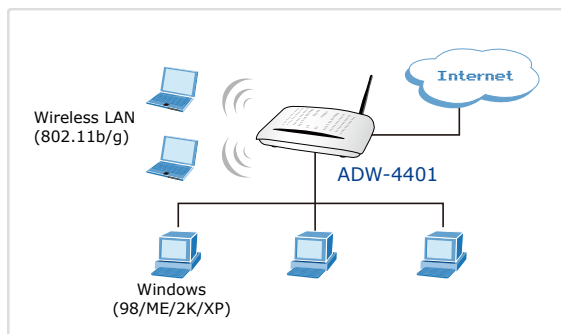
### LAN FEATURES

- **4-Port Switch.** The ADW-4401 incorporates a 4-Port 10/100Base-TX switching hub, made to easily create or extend your LAN.
- **DHCP Server Support.** Dynamic Host Configuration Protocol provides a dynamic IP address to PCs and other devices upon request. The ADW-4401 can act as a DHCP Server for devices on your local LAN and WLAN.

**APPLICATIONS**
**Internet Connection with Firewall:**

The ADW-4401 is a perfect solution to connect a small group of PCs to a very High-Speed broadband Internet connection. Multi-users can access the Internet simultaneously. With ADSL 2/2+ standards for worldwide deployment, it supports downstream rates up to 24 Mbps and upstream rates up to 3.5 Mbps.

The ADW-4401 also incorporates a 4-Port 10/100Base-TX switching hub and 802.11g wireless interface, made to easily create or extend your LAN. The built-in firewall can protect your LAN and prevent the attacks from the internet.


**SPECIFICATION**

<b>Product</b>	<b>802.11g Wireless ADSL 2/2+ Router</b>	
<b>Model</b>	<b>ADW-4401A / ADW-4401B</b>	
<b>Hardware</b>		
<b>Standard</b>	Compliant with ADSL Standard - Full-rate ANSI T1.413 Issue 2 - G.dmt (ITU G.992.1) - G.lite (ITU G.992.2) - G.hs, Multimode (ITU G.994.1) Capable of ADSL2 Standard - G.dmt.bis (ITU G.992.3, G.992.4) Capable of ADSL2+ Standard - G.dmt.bisplus (ITU G.992.5) - Reach Extended ADSL (RE ADSL)	
<b>Protocol</b>	RFC 2364 - PPP over ATM (LLC/VCMUX) RFC 2516 - PPP over Ethernet (LLC/VCMUX) RFC 1483 - Classic IP over ATM (LLC/VCMUX) RFC 2684 - Bridged IP over ATM (LLC/VCMUX) RFC 2684 - Routed IP over ATM (LLC/VCMUX)	
<b>AAL and ATM Support</b>	Support up to 8PVCs ATM Forum UNI 3.1/4.0 PVC VC and LLC Multiplexing Integrated ATM AAL5 support (UBR,CBR,VBR,VBR-rt, and VBR-nrt) 0 ~ 255 VPI plus 8 ~ 65535 VCI address range OAM F4 and F5 Segment end-to-end loop-back, AIS, and RDI OAM cells.	
<b>Ports</b>	<b>LAN</b>	4 (10Base-T/100Base-TX, Auto-Negotiation, Auto MDI/MDI-X)
	<b>Wireless</b>	1 x 802.11b/g wireless access point, 1 x antenna detachable
	<b>WAN</b>	1 (RJ-11, Auto-Negotiation)
<b>LED Indicators</b>	PWR, Link, WLAN, LAN 1-4	
<b>Button</b>	1 x reset button, 1 x power button	
<b>Wireless Standard</b>	IEEE 802.11b, IEEE 802.11g WLAN,	
<b>Frequency</b>	2.4 to 2.4835GHz (Industrial Scientific Medical Band )	
<b>Channels</b>	Maximum 14 Channels, depends on regulatory authorities	
<b>Data Rate</b>	Up to 54 Mbps	
<b>WEP</b>	64-bit, 128-bit	
<b>WPA_TKIP / WPA2_AES</b>	256-bit	

<b>Software</b>	
<b>Protocol / Feature</b>	NAT supports PAT and multimedia applications Static routing and RIPv1/2 IP Policy Routing Transparent Bridging SNTP DNS relay and IGMP proxy DMZ and Virtual Server
	Built-in NAT Firewall PPP over PAP(Password Authentication Protocol, RFC1334) PPP over CHAP (Challenge Authentication Protocol, RFC1994) Access Control IP-Based Packet filtering MAC filtering URL Blocking Password protection for system management
<b>Security</b>	
<b>VPN</b>	VPN Pass-Through
<b>Management</b>	Web-based configuration Embedded Telnet server for remote and local management Upgrade firmware and upload / download the configuration data via WEB SNMP v2 MIB supported Support DHCP server/client/relay Built-in Diagnostic tool and IP Ping
<b>Environment Specification</b>	
<b>Dimension (W x D x H)</b>	176 x 124 x 35mm
<b>Power</b>	12V DC, 1A
<b>Temperature / Humidity</b>	Operating temperature: 0 ~ 50 Degree C Storage temperature: -20 ~ 70 Degree C Humidity: 10 ~ 95% non-condensing
<b>Emission</b>	FCC, CE

**ORDERING INFORMATION**

<b>ADW-4401A</b>	802.11g Wireless ADSL 2/2+ Router, Annex A
<b>ADW-4401B</b>	802.11g Wireless ADSL 2/2+ Router, Annex B