

802.11n Wireless ADSL 2/2+ Router



The PLANET 802.11n Wireless ADSL 2/2+ Router with 2T2R MIMO antenna technology, ADN-4000, provides office and residential users the ideal solution for sharing a high-speed ADSL 2/2+ broadband Internet connection and four-10/100Mbps Fast Ethernet backbone. It can support up to 24Mbps downstream transmission rates of and up to 3.5Mbps upstream transmission rates. The product supports PPPoA (RFC 2364 - PPP over ATM Adaptation Layer 5), RFC 2684 encapsulation over ATM (bridged or routed), PPP over Ethernet (RFC 2516), and IPoA (RFC1483) to establish a connection with ISP.

With built-in IEEE 802.11b/g and 802.11n Draft 2.0 wireless network capability, the ADN-4000 allows any computer and wireless-enabled network device connect to it without additional cabling. New 802.11n Draft 2.0 wireless capability gives you the highest speed of wireless experience ever. With a compatible wireless card installed in your PC, the files can be transferred at up to 300Mbps. The radio coverage is also doubled to offer the high speed wireless connection even in a wide space of your office or house.

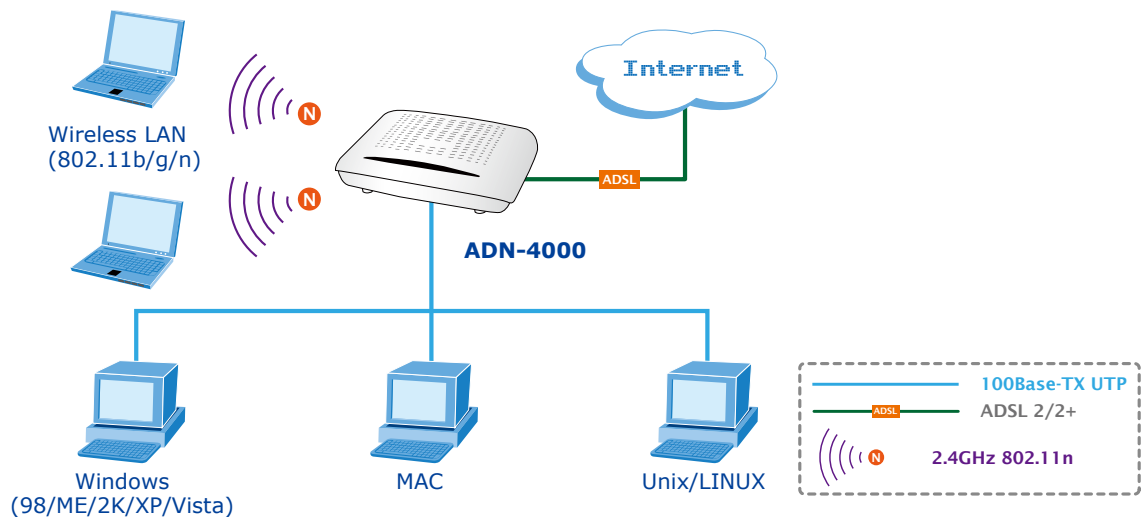
To secure the wireless communication, the ADN-4000 supports most up-to-date encryption, WEP, WPA-PSK and WPA2-PSK. In order to simplify the security settings, the ADN-4000 supports WPS configuration with PBC/PIN type for users to easily connect to a secured wireless network.

Via the user-friendly management interface, the ADN-4000 can be managed by workstations running standard web browsers. It provides DHCP server, NAT, Virtual Server, DMZ, Access Control, IP Filter, PPTP/IPSec/L2TP pass-through, DDNS, and UPnP capability. The ADN-4000 also serves as an Internet firewall protecting your network from being accessed by unauthorized users. It offers the natural firewall function (Network Address Translation, NAT) so all incoming and outgoing IPs can be monitored and filtered. Moreover, it can be configured to block internal users from accessing to the Internet.

APPLICATIONS

Internet Connection with Wired/Wireless

The ADN-4000 is a perfect solution for a small group of PCs connecting to high-speed broadband Internet. Multi-users can access the Internet simultaneously. With built-in 802.11n (Draft 2.0), the ADN-4000 enables the mobile users to access Internet in 300Mbps high speed. The ADN-4000 also incorporates a 4-Port 10/100Base-TX switching hub made to easily create or extend your LAN and prevent the attacks from the internet.



KEY FEATURES

INTERNET ACCESS FEATURES

- **Shared Internet Access**
All users on the LAN can access the Internet through the ADN-4000 using only a single external IP Address. The local (invalid) IP Addresses are hidden from external sources. This process is called NAT (Network Address Translation).
- **Built-in ADSL 2/2+ Modem**
The ADN-4000 provides ADSL 2/2+ modem and supports all common ADSL connections.
- **PPPoE, PPPoA, Direct Connection Support**
Various WAN connections are supported by ADN-4000.
- **Fixed or Dynamic IP Address**
On the Internet (WAN port) connection, the ADN-4000 supports both Dynamic IP Address (IP Address is allocated on connection) and Fixed IP Address.

ADVANCED INTERNET FUNCTIONS

- **Virtual Servers**
The feature allows Internet users to access Internet servers on your LAN. The required setup is quick and easy.
- **DMZ Support**
The ADN-4000 can translate public IP addresses to 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 options for access control from Internet like Telnet, FTP, TFTP, HTTP, SNMP, and ICMP services. It also supports IP/MAC / Application/URL filtering.
- **Universal Plug and Play (UPnP)**
UPnP allows automatic discovery and configuration of the Broadband Router. UPnP is supported by Windows ME, XP, or later.
- **Dynamic DNS Support**
With the Virtual Servers feature, the ADN-4000 allows users to connect to Servers on your LAN using a Domain Name even if you have a dynamic IP address which changes every time of connection.
- **VPN Pass through Support**
PCs with VPN (Virtual Private Networking) software using PPTP, L2TP, and IPSec are transparently supported - no configuration is required.
- **RIP Routing**
It supports RIPv1/2 routing protocol for routing capability.
- **Simple Network Management Protocol (SNMP)**
It is an easy way to remotely manage the router via SNMP.

LAN FEATURES

- **4-Port Switch**
The ADN-4000 incorporates a 4-Port 10/100Base-TX switching hub, making it easy to 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 ADN-4000 can act as a DHCP Server for devices on your local LAN and WLAN.

WIRELESS FEATURES

- **Support IEEE 802.11b, g and 802.11n Draft 2.0 Wireless Station**
The 802.11n standard provides for backward compatibility with the 802.11b and 802.11g standard, so 802.11b, 802.11g, and 802.11n Draft 2.0 can be used simultaneously. IEEE 802.11n (Draft 2.0) wireless technology is capable of up to 300Mbps data rate.
- **Two Dipped Antennas with MIMO Technology**
The ADN-4000 provides farther coverage, less dead spaces and higher throughput with 2T2R MIMO technology.
- **WEP Support**
WEP (Wired Equivalent Privacy) is included. Key sizes of 64 Bit and 128 Bit are supported.
- **WPS Push Button Control**
The ADN-4000 supports WPS (Wi-Fi Protected Setup) to easily connect to wireless network without configuring the security.
- **WPA-PSK Support**
WPA-PSK_TKIP and WPA-PSK_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.

SPECIFICATION

Product		802.11n Wireless ADSL 2/2+ Router
Model		ADN-4000
Hardware Specification		
Standard		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) Capable of ADSL2+ Standard - G.dmt.bisplus (ITU G.992.5) - Reach Extended ADSL (RE ADSL)
Protocol		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)
AAL and ATM Support		Supports up to 16 PVCs ATM Forum UNI 3.1/4.0 PVC VC and LLC Multiplexing Integrated ATM AAL5 support(UBR,CBR,VBR-rt, and VBR-nrt) 0~255 VPI plus 1~65535 VCI address range OAM F4 & F5 Segment end-to-end loop-back, AIS, and RDI OAM cells
Ports	LAN	4 x Ethernet (10/100Mbps, Auto-Negotiation, Auto MDI/MDI-X)
	WLAN	1 x 802.11b/g/n Access Point with 2 x internal dipped antennas
	WAN	1 x RJ-11
LED Indicators		PWR, Link, Data, LAN 1~4, WLAN, WPS
Button		WLAN, Reset, WPS, Power
Max. Concurrent Sessions		4096
Wireless Standard		IEEE 802.11b, g and 802.11n Draft 2.0
Wireless Frequency		2.4 to 2.4835GHz (Industrial Scientific Medical Band)
Wireless Channels		Maximum 14 Channels, depending on regulatory authorities
Wireless Data Rate		Up to 300 Mbps
Wireless Data Encryption		64 bit / 128 bit WEP, WPA-PSK / WPA2-PSK, and WPS PBC
Wireless Data Rate		IEEE 802.11b: 1/2/5.5/11Mbps IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps IEEE 802.11n: 14/29/43/58/87/116/130/144Mbps in 20MHz 30/60/90/120/180/240/270/300Mbps in 40MHz
Software		
Protocols/Features		NAT supports PAT and multimedia applications NAT, Static Routing, and RIPv1/2 Transparent Bridging Dynamic Domain Name System (DDNS) SNTP DNS relay and IGMP proxy DMZ and Virtual Server Quality of Service (QoS) for Traffic Prioritization TR-069 Ready UPnP

Security	Built-in SPI Firewall PPP over PAP (Password Authentication Protocol, RFC1334) PPP over CHAP (Challenge Authentication Protocol, RFC1994) DoS Protection Access Control ACL (Access Control) IP/MAC /Application/URL Filter Stateful Packet Inspection (SPI) Firewall Password protection for system management
VPN	VPN pass through
Management	Web-Based configuration Embedded Telnet server for remote and local management Firmware upgraded and configuration data upload/download via WEB SNMP v2 MIB supported Support DHCP Server/Client/Relay Built-in Diagnostic tool and IP Ping
Environment Specifications	
Dimension (W x D x H)	190 x 98 x 35 mm
Power	12V DC, 1A
Operating Environment	Temperature: 0 ~ 50 Degree C Humidity: 10 ~ 95% non-condensing
Emission	FCC, CE

ORDERING INFORMATION

ADN-4000A	802.11n Wireless ADSL 2/2+ Router, Annex A
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