

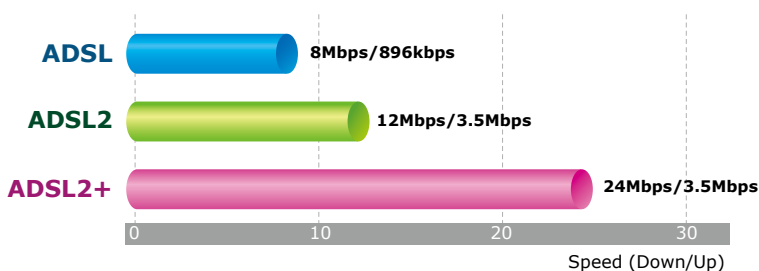
802.11n Wireless ADSL 2/2+ Router



Improved Networking Function for Future IP Compatibility

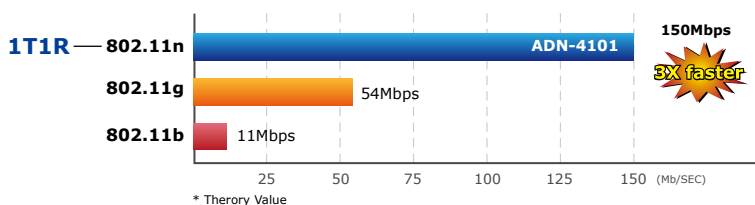
PLANET ADN-4101 is a Wireless ADSL 2/2+ Router compliant with 802.11n and features 1T1R MIMO antenna technology. The ADN-4101 is the ideal solution for office and residential users to share a high-speed ADSL 2/2+ broadband Internet connection and four-10/100Mbps Fast Ethernet backbone. It provides transmission rates up to 24Mbps downstream and 3.5Mbps upstream with ADSL 2+ support. Through integration with single chipset to reduce boot time, the ADN-4101 brings more powerful performance to users. The ADN-4101 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.

ADSL Series Comparison



High-Speed 802.11n Wireless Type

With built-in IEEE 802.11b/g and 802.11n wireless network capabilities, the ADN-4101 allows any computer and wireless-enabled network device to connect it without additional cabling. The 802.11n wireless capability gives you the high speed of wireless transmission up to 150Mbps. With a compatible wireless card installed in your PC, any file can be transferred in very high speed. The radio coverage is also doubled than before, which offers the high speed wireless connection even in a wide space of your office or house.



Internet Access Features

- Shared Internet Access
All users in the LAN can access the Internet through the ADN-4101 by using 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-4101 provides ADSL 2/2+ modem service and supports all common ADSL connections.
- PPPoE, PPPoA, Direct Connection Support
Various WAN connections are supported by the ADN-4101.
- Fixed or Dynamic IP Address
On the Internet (WAN port) connection, the ADN-4101 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 ADN-4101 can translate public IP addresses into private IP address and 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
The ADN-4101 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 discovering and configuration of the Broadband Router. UPnP is supported by Windows ME, XP, or later.
- Dynamic DNS Support
Based on the Virtual Servers feature, the ADN-4101 allows users to connect a server to the LAN by using a Domain Name even if you have a dynamic IP address. The ADN-4101 supports Planet Dynamic DNS that it is free for customers.
- 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.

One-touch Secure Wireless Connection

To secure the wireless communication, the ADN-4101 features the most up-to-date encryption, WEP, WPA-PSK and WPA2-PSK. The ADN-4101 also supports WPS configuration with PBC/PIN type for users to easily connect to a secured wireless network with no need of complicated settings.



Powerful Firewall and Complete Access Control Functions

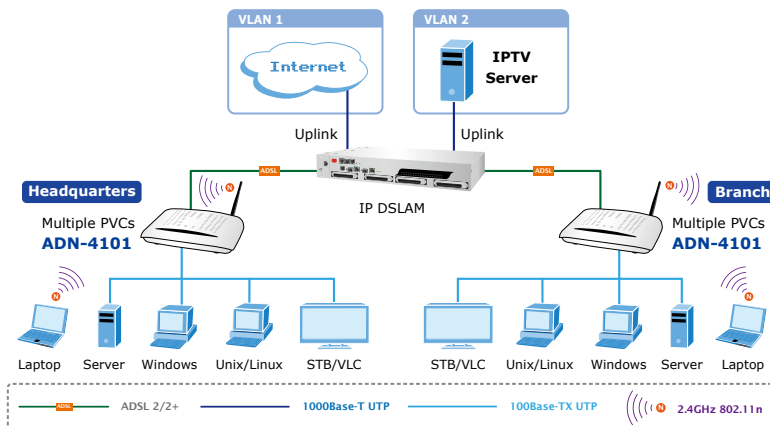
The ADN-4101 has user-friendly management interfaces so it can be managed by workstations running standard web browsers. It provides DHCP server, NAT, Virtual Server, DMZ, Access Control, IP Filter, DDNS, and UPnP capability. The ADN-4101 also serves as an Internet firewall to protect your network from being accessed by unauthorized users. It offers the natural firewall function. All the incoming and outgoing IPs can be monitored and filtered. For the advanced application, it even can block internal users accessing to the Internet services.

Applications

Internet Connection with Wired/Wireless Type

The ADN-4101 is a perfect solution for a small group of PCs connecting to a high-speed broadband Internet connection. Multi-users can access the Internet simultaneously. With built-in 802.11n capability, the ADN-4101 enables the mobile users to access Internet by up to 150Mbps high speed.

The ADN-4101 also incorporates a 4-port 10/100Base-TX switching hub, which can easily create or extend your LAN and prevent the attacks from the internet.



LAN Features

- 4-port Switch
The ADN-4101 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-4101 can act as a DHCP Server for devices on your local LAN and WLAN.

Wireless Features

- Supports IEEE 802.11b, g and 802.11n Wireless Standard
The 802.11n standard provides backward compatibility with the 802.11b and 802.11g standard, so 802.11b, 802.11g, and 802.11n compliant devices can be used simultaneously.
- 802.11n Technology
The ADN-4101 complies with IEEE 802.11n wireless technology standard and provides data rate up to 150Mbps. It provides farther coverage, less dead spaces and higher throughput.
- WEP Support
WEP (Wired Equivalent Privacy) is included. Key sizes of 64 bit and 128 bit are supported.
- WPS Push Button Control
The ADN-4101 supports WPS (Wi-Fi Protected Setup) for users to easily connect to wireless network without configuring the security.
- WPA-PSK Support
WPA-PSK_TKIP and WAP-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.

Specifications

Model		ADN-4101A
Hardware		
Standard		<p>Compliant with ADSL Standard</p> <ul style="list-style-type: none"> - 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) <p>Capable of ADSL2 Standard</p> <ul style="list-style-type: none"> - G.dmt.bis (ITU G.992.3) <p>Capable of ADSL 2+ Standard</p> <ul style="list-style-type: none"> - G.dmt.bisplus (ITU G.992.5) - Reach Extended ADSL (RE ADSL) <p>Supports Annex A, B, M, L</p>
Protocol		<p>RFC 2364 - PPP over ATM (LLC/VCMUX)</p> <p>RFC 2516 - PPP over Ethernet (LLC/VCMUX)</p> <p>RFC 1483 - Classic IP over ATM (LLC/VCMUX)</p> <p>RFC 2684 - Bridged IP over ATM (LLC/VCMUX)</p> <p>RFC 2684 - Routed IP over ATM (LLC/VCMUX)</p>
AAL and ATM Support		<ul style="list-style-type: none"> ■ Supports up to 8 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 one 2dBi dipole antenna
	WAN	1 x RJ-11
LED Indicators		PWR, Link, Data, LAN 1~4, WLAN, WPS
Button		WLAN, Reset, WPS, Power
Max. Concurrent Sessions		2048
Wireless Standard		IEEE 802.11b, g and 802.11n
Wireless Frequency		2.4 to 2.4835GHz (Industrial Scientific Medical Band)
Wireless Channels		Maximum 14 Channels, depending on regulatory authorities
Wireless Data Encryption		64 bit / 128 bit WEP, WPA-PSK / WPA2-PSK, and WPS PBC
Wireless Data Rate		<p>Maximum up to 150 Mbps</p> <p>IEEE 802.11b: 1/2/5.5/11Mbps</p> <p>IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps</p> <p>IEEE 802.11n: 14/29/43/58/87/116/130/144Mbps in 20MHz</p> <p>30/60/90/120/150Mbps in 40MHz</p>
RF Modulation		<p>IEEE 802.11b mode: DSSS (CCK, QPSK, BPSK)</p> <p>IEEE 802.11g mode: OFDM (BPSK, QPSK, 16QAM, 64QAM)</p> <p>HT20 and HT40: 64 QAM, 16QAM, QPSK, BPSK</p>
Transmit Power		<p>11b: 16.5dBm ± 1.5dBm</p> <p>11g: 14dBm ± 1.5dBm</p> <p>11n HT20M: 13dbm± 1.5dBm</p> <p>11n HT40M: 13dbm± 1.5dBm</p>
Receiver Sensitivity		<p>802.11b: <-80dBm</p> <p>802.11g: <-68dBm</p> <p>802.11n HT20M: <-64dbm</p> <p>802.11n HT40M: <-61dbm</p>
Software		
Protocols/Features		<p>NAT supports multimedia applications</p> <p>NAT, Static Routing, and RIPv1/2</p> <p>Transparent Bridging</p> <p>Dynamic Domain Name System (DDNS)</p> <p>SNTp</p> <p>DNS relay and IGMP proxy</p> <p>DMZ and Virtual Server</p> <p>Quality of Service (QoS) for Traffic Prioritization</p> <p>TR-069 Ready</p> <p>UPnP</p>

Security	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
Management	Web-based configuration Embedded Telnet server for remote and local management Firmware upgraded and configuration data upload/download via WEB SNMP v1/v2c MIB supported Support DHCP Server/Client/Relay Built-in Diagnostic tool TR-069
Environment Specification	
Dimensions (W x D x H)	176 x 124 x 35 mm
Power	12V DC, 0.8A
Temperature and Humidity	Operating temperature: 0 ~ 50 degrees C Storage temperature: -10 ~ 70 degrees C Humidity: 10 ~ 95% non-condensing
Emission	FCC, CE

Ordering Information

ADN-4101	802.11n Wireless ADSL 2/2+ Router
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Related Products

ADE-4400	ADSL 2/2+ 4-Port Router
ADE-3400	ADSL 2/2+ Router
IDL-2402	24-Port IP DSLAM
IDL-4802	48-Port ADSL 2/2+ IP DSLAM (2 x GbE Combo, 100~240 VAC)
IDL-4802-48	48-Port ADSL 2/2+ IP DSLAM (2 x GbE Combo, -48 VDC)