# 802.11n Wireless ADSL 2/2+ Router

Built-in Firewall to Have Safe Internet Surfing

PLANET ADN-4102 is a Wireless ADSL 2/2+ Router compliant with 802.11n and features 1T1R MIMO antenna technology. The ADN-4102's built-in parental controls is to limit children's online time – be it computing or gaming, thus creating a safer computing environment for children. In Annex M mode, the ADN-4102 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-4102 brings more powerful performance to users. The ADN-4102 also 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.

PC

PC

Switch

PC

PC

ADN-4102   Firewall

ADSL

Internet

ADSL   ADSL 2/2+
       100BASE-TX UTP
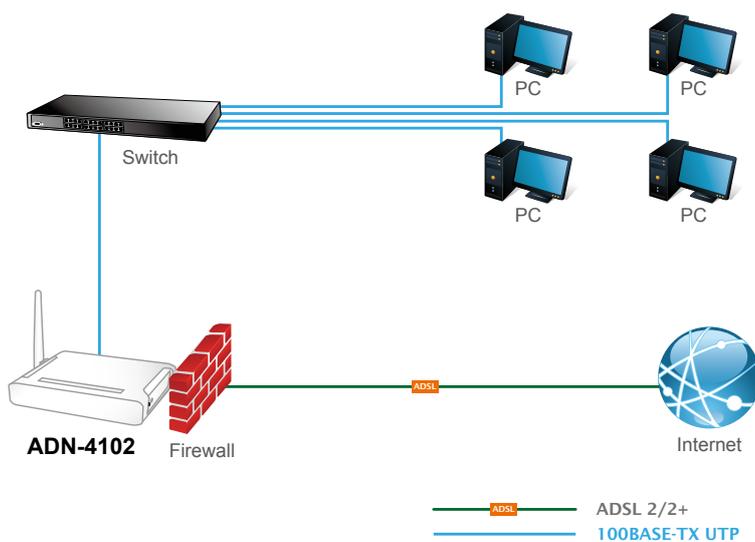
Internet Access Features

• Shared Internet Access through a single external IP address
• Supports NAT (Network Address Translation)
• Built-in ADSL 2/2+ Modem for all common ADSL connections
• Various WAN connections - PPPoE, PPPoA, Direct Connection
• Supports Fixed and Dynamic IP Address

Advanced Internet Functions

• Supports Virtual Servers with quick and easy setup
• DMZ Support to allow unrestricted 2-way communication with servers or individual users on the Internet
• Simple firewall with NAT technology
• Provides options for access control from Internet like Telnet, FTP, TFTP, HTTP, and ICMP services
• Supports IP/ MAC/ Application/ URL filtering
• Universal Plug and Play (UPnP) to allow automatic discovery and configuration of the broadband router
• Dynamic DNS Support, allowing users to connect a server to the LAN by using a Domain Name even if you have a dynamic IP address
• Supports Planet Dynamic DNS service
• RIP v1 / v2 Routing support

LAN Features

• 4-port 10/100BASE-TX switching
• DHCP (Dynamic Host Configuration Protocol) Server Support
• Supports IPv6 / IPv4
• Optional NAT ALG, offering 9 items that can be selected from web UI, including VPN passthrough, SIP, H.323, ICQ, etc
• Parental Controls -- Limit specific PC with IP or MAC address to the time and programs available for internet connection

High-speed 802.11n Wireless Access

With built-in IEEE 802.11b/g and 802.11n wireless network capabilities, the ADN-4102 allows any computer and wireless-enabled network device to connect it without additional cabling. Smart phones also jump on the bandwagon of wireless networking. Its 802.11n wireless capability gives you a high-speed wireless transmission up to 150Mbps. With a compatible wireless LAN card installed in your PC, any file can be transferred at a very high speed. The radio coverage is also doubled than before, offering you the high-speed wireless connection, even in a spacious office or house.

One-touch Secure Wireless Connection

To secure the wireless communication, the ADN-4102 features the most up-to-date encryptions like WEP, WPA-PSK and WPA2-PSK. The ADN-4102 also supports WPS configuration with PBC/PIN type for users to easily connect to a secured wireless network with no need of complicated settings.

Wireless Features

- IEEE 802.11b/g/n Wireless Standard compliant
- Provides data rate up to 150Mbps via 802.11n Technology
- WEP (Wired Equivalent Privacy) Support with key sizes of 64 bit and 128 bit
- WPS (Wi-Fi Protected Setup) Push Button Control for easy wireless connection without configurations
- WPA-PSK Support: WPA-PSK_TKIP and WAP-PSK_AES encryptions
- Wireless MAC Access Control to ensure that only trusted wireless stations can access your LAN

WPS (Wi-Fi Protected Setup)
Quick & Easy Wireless Connection

Step 1 — WPS Click
Step 2 — Press — WPS Button
Step 3 — Connected
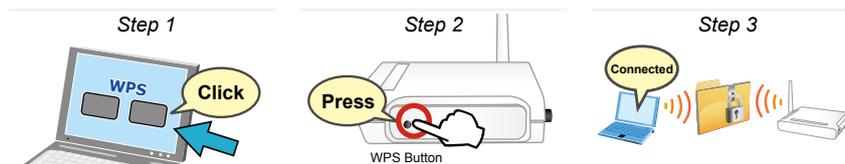
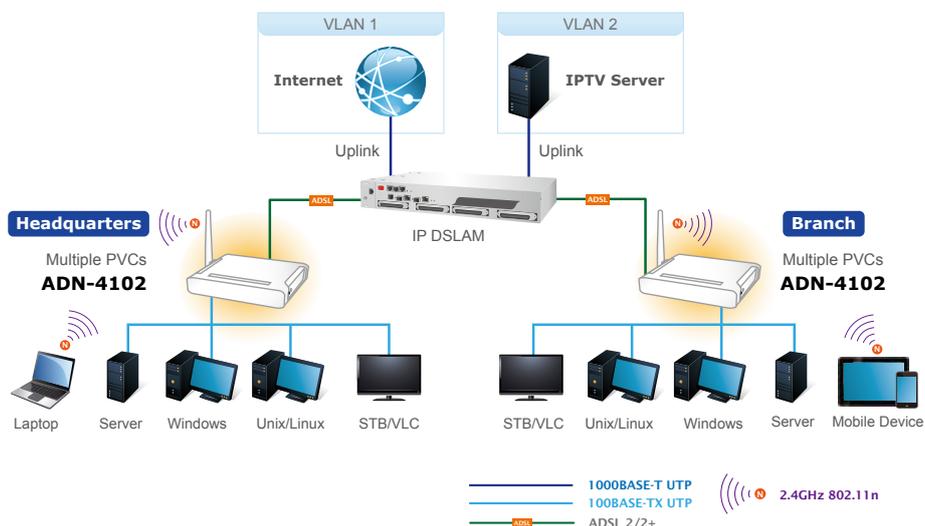## 4-in-1 (4 Multiple SSIDs) Wireless Networking Infrastructures

Up to four wireless networking with management can be established by the ADN-4102. This flexibility makes it the best choice for SOHO wireless networking in restaurants, hotels, bookstores and more.

Applications

Internet Connection with Wired/Wireless Type

The ADN-4102 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-4102 enables the mobile users to access Internet at a high speed of up to 150Mbps.

The ADN-4102 also incorporates a 4-port 10/100BASE-TX switching hub, which can easily create or extend your LAN and prevent attacks from the internet.

Specifications

Model	ADN-4102A
Hardware	
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) Supports Annex A, M, L
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 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)
Ports — WLAN	1 x 802.11b/g/n Access Point with one 2dBi dipole antenna
Ports — WAN	1 x RJ11
LED Indicators	PWR, Link, Data, LAN 1~4, WLAN, WPS
Button	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	Maximum up to 150 Mbps IEEE 802.11b: 1/2/5.5/11Mbps IEEE 802.11g: 6/9/12/18/24/36/48/54Mbps IEEE 802.11n: 14/29/43/58/87/116/130/144Mps in 20MHz 30/60/90/120/150Mbps in 40MHz
RF Modulation	IEEE 802.11b mode: DSSS (CCK,QPSK,BPSK) IEEE 802.11g mode: OFDM (BPSK,QPSK,16QAM,64QAM) HT20 and HT40: 64 QAM, 16QAM, QPSK, BPSK
Transmit Power	IEEE 802.11b: 16.5dBm ± 1.5dBm IEEE 802.11g: 14dBm ± 1.5dBm IEEE 802.11n HT20M:13dbm ± 1.5dBm IEEE 802.11n HT40M: 13dbm ± 1.5dBm
Receiver Sensitivity	IEEE 802.11b: < -80dBm IEEE 802.11g: < -68dBm IEEE 802.11n HT20M: < -64dbm IEEE 802.11n HT40M: < -61dbm
Software	
Protocols/Features	NAT supports 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	PPP over PAP (Password Authentication Protocol, RFC 1334)
	PPP over CHAP (Challenge Authentication Protocol, RFC 1994)
	DoS Protection
	Access Control
	ACL (Access Control)
	IP / MAC / 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
	Support DHCP Server/Client/Relay
	Built-in diagnostic tool
	TR-069
Environment Specifications	
Dimensions (W x D x H)	117 x 100 x 25 mm
Power	12V DC, 0.5A
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-4102 | 802.11n Wireless ADSL 2/2+ Router |

Related Products

ADE-3400	ADSL 2/2+ Router
XDL-2420R	24-Port VDSL2 / ADSL2+ with 2-Port Gigabit TP/SFP Combo IP DSLAM
IDL-2402	24-Port IP DSLAM
IDL-4802	48-Port ADSL 2/2+ IP DSLAM (2 x GbE Combo, 100~240V AC)
IDL-4802-48	48-Port ADSL 2/2+ IP DSLAM (2 x GbE Combo, -48V DC)

C-ADN-4102