Allied Telesis™

AT-WNP300N
Wireless LAN PCI Adapter

AT-WNP300N-xx

IEEE 802.11b/g/n 1T2R wireless - fast PCI adapter

Higher Speed and Longer Reach

The Allied Telesis AT-WNP300N provides desktop PC users with access to high-speed wireless networks for flexibility and freedom. You are free to move your PCs within the wireless coverage anywhere your want. Using the latest draft IEEE 802.11n technology, the wireless connection speed can get up to 300Mbps, more than five times the throughput of the earlier traditional IEEE 802.11g standard. In addition, the wireless range is also extended, ensuring greater connectivity and coverage. Dynamic data rate scaling helps achieve the fastest possible connection within the wireless coverage area.

Supports Latest Applications

The additional performance and throughput delivered by the AT-WNP300N allows users to support the latest applications, such as wireless video streaming, music and video downloads, Internet phone calls, and file sharing.

Security

The security on the AT-WNP300N is backed up by the latest industry compliance WPA and WPA2, and IEEE 802.1x authentications ensure that you get the best security measures possible in the market. It guarantees network access from permitted users only, and gives you a peace of mind that your data will be safe.

Backwards Compatibility and Interoperability

The Allied Telesis AT-WNP300N is backwards compatible with existing wireless standards IEEE 802.11b/g, allowing continued connectivity to existing wireless access points, routers, and client devices. The card is Wi-Fi certified, providing the users with the freedom and confidence when choosing other Wi-Fi certified vendors wireless devices, knowing that these products are interoperable.

Key Features

- High-speed draft IEEE 802.11n standard delivering data throughput up to 300Mbps

- Backwards compatible with IEEE 802.11b/g standards

- Dynamic data rate scaling ensures maximum network throughput

- Supports wireless data encryption and security via WPA2, WPA and WEP

- Supports WMM for wireless QoS on Windows

- Supports Microsoft Windows 2000, XP and Vista O/S

- Two 2dBi gain antenna for better coverage and performance

- User friendly configuration

- PCI 2.2 standards compliant host interface

Radio Characteristics

Data Rate With Automatic Fallback

IEEE 802.11n   MCS0~15, the maximum 300Mbps data rates (300Mbps Rx PHY rate; 150Mbps Tx PHY support)

IEEE 802.11g   54, 48, 36, 24, 18, 12, 11, 9, 6, and 1Mbps

IEEE 802.11b   11, 5.5, 2, and 1Mbps

Frequency Bands

2.4GHz, actual frequency varies by country

Radio Output Power

16~20 dBm depends on frequencies

IEEE 802.11b   20dBm
IEEE 802.11g   16dBm
IEEE 802.11n   16dBm

Receive sensitivity

IEEE 802.11g   6Mbps: -90dBm
               54Mbps: -75dBm

IEEE 802.11n   MCS8: -88dBm
               MCS 15: -65dBm

Modulation Schemes

OFDM, BPSK, QPSK, 16-QAM, 64-QAM, DBPSK, DQPSK, CCK

Channels

USA   11
Europe   13

Antenna

2 x 2dBi Dipole Antenna (2.4GHz)

Standards Capability

IEEE 802.11b
IEEE 802.11g
IEEE 802.11n

Security

64/128 bits WEP encryption/decryption with up to four WEP keys
WPA - WPA-EAP (TLS, PEAK, TTLS, EAP-SIM), WPA-PSK (TKIP), WPA-PSK (AES)
WPA2 — WPA2-EAP (TLS, PEAK, TTLS, EAP-SIM), WPA2-PSK (TKIP), WPA2-PSK (AES)
IEEE 802.1x authenticator
WPS

Led Status Indicators

Link   On   Power on
         Blink   Disconnecting
         Off   Power off

Active   Blink   Connecting and disconnecting
         Flash   Radio on and TX/RX data transmission
         Off   Radio off

Driver Support

Windows 2000
Windows XP
Windows Vista

Technical Specifications

Environmental Specifications

Operating temp.   0°C to 45°C
Operating humidity   15% to 95% non-condensing
Storage temp.   -10°C to 70°C
Storage humidity   15% to 95% non-condensing

Physical Characteristics

Dimensions   120mm x 63mm
(W x D x H)   4.72in x 2.48in

Weight   0.11 lb (52g)

Electrical/Mechanical/Safety Approvals

FCC Part 15 Class B
FCC Part 15B, 15C
EN 300 328
EN 301 489-1/-17
EN 60950
EN 62311
C-Tick
AS/NZS 4268
WiFi (b/g/n, WPS)
WHQL

Ordering Information

AT-WNP300N/xx-001
IEEE 802.11b/g/n 1T2R wireless - fast PCI adapter

Where xx =   EU for Europe
               NA for North America

Connecting The (IP) World

Allied Telesis