



## AT-WCP201 Series Wireless LAN PCI Adapter

### AT-WCP201G

IEEE802.11g, 108Mbps High Speed Wireless LAN PCI Adapter

#### Higher Speed and longer reach

Allied Telesis' AT-WCP201G provides desktop PC users with access to the wireless network for flexibility and freedom. You are free to move your PCs within the wireless coverage anywhere you want. With the Super GTM Technology, the connection speed can get up to 108Mbps, double what a normal 802.11g card can give you. The higher gain antenna with 5dBi can further improve the coverage and performance. AT-WCP201G is suitable for wireless applications where delivery of digital images, videos, and MP3 files are required. Dynamic data rate scaling also helps to achieve the fastest possible connections.

#### Securer

The security on AT-WCP201G backed up by the latest industry compliance WPA and WPA2, and 802.1x authentications ensure that you get the best security measures possible in the market. It guarantees network access from permit users only, and give you a peace of mind that your data will be safe.

#### Interoperability

Allied Telesis Inc.'s AT-WCP201G is Wi-Fi certified. The certification provides users with the freedom and confidence of choosing Wireless LAN Access Points and client devices, knowing that these products are interoperable with products from other Wi-Fi certified vendors. Customers can use the same AT-WCP201G across multiple environments—in their offices, homes and in public areas where Wi-Fi LANs are deployed. They no longer risk being locked into a single vendor solution.

#### Key Features

- Compatible with IEEE 802.11g standard with speeds up to 108Mbps data rate with the turbo mode
- Backward compatible with IEEE802.11b standard
- Dynamic data rate scaling at 54, 48, 36, 24, 18, 12, 9 and 6Mbps for 802.11g
- Dynamic data rate scaling at 11, 5.5, 2 and 1Mbps for 802.11b
- Maximum reliability, throughput and connectivity with automatic data rate switching
- Supports wireless data encryption with 64/128/152-bit WEP standard for security
- Supports infrastructure networks via Access Point and ad-hoc network via peer-to-peer communication
- Supports WPA and WPA2 enhanced security
- Supports WMM for Wireless QoS on Windows 2000 and XP
- Friendly user configuration
- External Antenna with 5dBi gain for better coverage and performance
- PCI 2.2 standard compliant

# AT-WCP20I Series | Wireless LAN PCI Adapter

## Radio Characteristics

### Data Rate with Automatic Fallback

1, 6, 9, 12, 24, 36, 48, 54 and 108 Mbps for 802.11g and 1, 2, 5.5, and 11 Mbps for 802.11b

### Receiver Sensitivity

802.11b:

Typical -84dBm for 11Mbps @ 8% PER

Typical -90dBm for 2Mbps @ 8% PER

802.11g:

Typical Sensitivity at Which Frame (1000-byte PDUs)

Error Rate = 10%

-87dBm at 6Mbps

-86dBm at 9Mbps

-85dBm at 12Mbps

-83dBm at 18Mbps

-80dBm at 24Mbps

-76dBm at 36Mbps

-71dBm at 48Mbps

-66dBm at 54Mbps

### Modulation Schemes

BPSK, QPSK, 16QAM, 64QAM, and OFDM

### Frequency Range

2400 ~ 2497 MHz ISM band (channels 1 ~ 14)

### Channel

USA 11

Europe 13

### Transmit Output Power

Typical RF Output Power at each Data Rate

+12 ~ 15dBm at 54Mbps

+13 ~ 16dBm at 48Mbps

+14 ~ 17dBm at 36Mbps

+17 ~ 18dBm at 24, 18, 12, 9, and 6Mbps

### Standards Capability

IEEE 802.11b

IEEE 802.11g

### Media Access Protocol

CSMA/CA with ACK

### Antenna

External Antenna with 5 dBi gain, connecting with the unit with 1.5 Meter RG-174 cable via a SMA Plug Reverse connector

## Security

64/128/152-bits WEP Encryption/Decryption

with up to four WEP keys

Support EAP-TLS, EAP-TTLS, and EAP-PEAP for 802.1X

Support WPA-PSK, WPA-EAP and Cipher Mode AES

and TKIP

## LED Status Indicators

Power On

Off

Link Off All other status

On Radio on and associated

Blink Radio on and scanning

Flash Radio on and associated and TX/RX data

## PC Interface

PCI Local Bus 2.2 Compliance

Low-profile and half-length

PCI 32-bit Interface

Operating voltage 3.3VDC +/- 10%

## Driver Support

Windows 2000

Windows XP

Windows 2003

All Window Drivers are WHQL Certified.

## Technical Specifications

### Power Characteristics

Continuous Current Consumption:

1650mW at continuous transmit mode

950mW at continuous receive mode

40mW at sleep mode

### Environmental Specifications

Operating Temp. 0°C to 55°C

Storage Temp. -25°C to 70°C

Operating Temp. 10% to 90 % no condensation

### Physical Characteristics

Dimensions: 110mm x 54mm x 5mm (W x H x D)

Weight: 0.08 lb

### Standards Compliance

IEEE Std 802.11b

IEEE Std 802.11g

### Electrical/Mechanical Approvals

FCC/EN55022 Class B

TUV

CE

Ghost

Wi-Fi

## Ordering Information

AT-WCP20IG-xxx

IEEE802.11g 108Mbps High-Speed Wireless LAN PCI Adapter

Where xxx = 001 for single pack

= 020 for 20pack

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