Allied Telesis®

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 date rate scaling at 54, 48, 36, 24,
  18, 12, 9 and 6Mbps for 802.11g

- Dynamic date 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

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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-WCP201G-xxx
IEEE802.11g 108Mbps High-Speed Wireless LAN PCI
Adapter

Where xxx	= 001 for single pack
	= 020 for 20pack

Connecting The (IP) World

Allied Telesis

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