



## AT-WCU201 Series Wireless USB2.0 Adapters

### AT-WCU201G

IEEE802.11g, 108Mbps High Speed  
Wireless USB2.0 Adapter

#### Higher Speed and Longer Reach

Allied Telesis' AT-WCU201G equips the mobile users with better access to the wireless network with higher speed and longer reach. With the Super GTM Technology, the connection speed can get up to 108Mbps, double what a normal 802.11g card can give you. It's 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-WCU201G 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.

#### Flexibility and Convenience

AT-WCU201G is ideal for use either at home, in the office or on the road. Users can use AT-WCU201G on either their laptops or desktop PCs without opening the PC for installation. With the USB cable shipped along with AT-WCU200G, it provides the convenience for placing the device wherever it's easier to reach and with better reception. The ad-hoc mode will allow the users with 802.11b/g enabled computers to share files and transfer data wirelessly between themselves.

#### Interoperability

Allied Telesis Inc.'s AT-WCU201G 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-WCU200G 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 for the turbo mode
- 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
- Support Ad-hoc mode (peer-to-peer) as well as Infrastructure mode
- Supports WPA and AES enhanced security
- Supports wireless data encryption with 64/128/152-bit WEP standard for security
- Friendly user configuration
- High speed USB 2.0 interface with data rates up to 12Mbps full speed and 480Mbps high speed

## Radio Characteristics

### Data Rate with Automatic Fallback

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

### Receiver Sensitivity

Typical Sensitivity at Which Frame (1000-byte PDUs)  
Error Rate = 10%  
-88dBm at 6Mbps  
-86dBm at 9Mbps  
-84dBm at 12Mbps  
-82dBm at 18Mbps  
-78dBm at 24Mbps  
-74dBm at 36Mbps  
-69dBm at 48Mbps  
-66dBm at 54Mbps

### Modulation Schemes

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

### Frequency Range

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

### Operating Channels

USA: 11  
Europe: 13

### Transmit Output Power

Typical RF Output Power at each Data Rate  
+15dBm at 54 and 48Mbps  
+16dBm at 36 Mbps  
+17dBm at 24, 18, 12, 9, and 6Mbps

### Standards Capability

IEEE 802.11b  
IEEE 802.11g

### Media Access Protocol

CSMA/CA with ACK

### Antenna

Integrated antenna

## 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

Link: Green — Link established  
Act: Blinking Amber — Activity

## BUS Interface

Universal Serial Bus (USB 2.0)

## Driver Support

Windows 2000  
Windows XP  
Windows 2003

## Technical Specifications

### Power Characteristics

Operating Voltage: 5V +/- 5% I/O supply voltage

### Transmit Output Power

Typical RF Output Power at each Data Rate  
+15dBm at 54 and 48Mbps  
+16dBm at 36 Mbps  
+17dBm at 24, 18, 12, 9, and 6Mbps

### Continuous Current Consumption

472 mA at transmit mode  
290 mA at receive mode

### Environmental Specifications

Operating Temperature: 0 to 55°C  
Storage Temperature: -20 to 75°C  
Operating Humidity: 10 to 90 % no condensation

### Physical Characteristics

Dimensions: 81 x 25 x 12 mm (L x W x H)  
Weight: 0.05 lbs (25g)

### 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-WCU201G-XXX

IEEE802.11g, 108Mbps High-Speed  
Wireless USB2.0 Adapter

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

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