



# EnGenius® DATASHEET

## High power WLAN PCI Adapter EPI-3601S

**2.4 GHz**

**802.11b/g**

**108 Mbps**

EPI-3601S is compliant to IEEE802.11b/g PCI card which adopts “Super G” and “Extended Range” WLAN technologies, enhance the transmission speeds up to 108M, extend 6 times distance than the normal 11b, 11g products.

It provides multi security protection. Complying with 64/128/152-bit WEP Encryption, WPA, IEEE802.1x, TKIP and AES, which provides super-safety data communication abilities. With its strong firewall, EPI-3601S features effective security to protect the wireless network from intruders.

With the external antenna, it can fit different operation environments and let the user connect to the Wireless network easily. The EPI-3601S also supports seamless roaming and is compatible with other 11b, 11g WLAN equipments.



Features	Benefits
2.4GHz IEEE802.11b/g standard	Fully interoperable with IEEE802.11/b/g compliant products.
High Speed Data Rate up to 108Mbps	Capable of handling heavy data payloads such as MPEG video streaming
802.11i security specifications, provides Advanced Encryption Standard (AES), Temporal Key Integrity Protocol (TKIP), IEEE802.1x client	Enhances authentication and security.
High transmit output power up to 27dBm	Up to 6 times than the range of normal wireless products.
Site Survey Utility	Allows users to browser the available active access points which users can connect
802.11e Standard Support	Wireless Multimedia Enhancements Quality of Service support (QoS)
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\* Theoretical wireless signal rate based on IEEE standard of 802.11b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

\*\* All specifications are subject to change without notice.

## Technical Specifications

### Data Rates

**802.11g:** 6, 9, 12, 18, 24, 36, 48, 54, 72 and 108Mbps

**802.11b:** 1, 2, 5.5, 11Mbps

### Standards / Compliance

IEEE802.11, IEEE802.11g, IEEE802.11b

### Regulation Certifications

FCC Part 15.247, ETSI 300/328/CE

### Drivers

Windows 2000/XP/Vista

### Current consumption

Tx Current  $\leq$  685mA (Full transmit)

Rx Current  $\leq$  515mA (Full transmit)

### Range Coverage

Indoor: 600 meters (depends on environment)

Outdoor: 1500 meters (depends on environment)

### RF Information

#### Frequency Band

2.412~2.472GHz

#### Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

#### Modulation Technology

**802.11g:**  
OFDM (64-QAM, 16-QAM, QPSK, BPSK)

**802.11b:**  
DSSS (DBPSK, DQPSK, CCK)

#### Operating Channels

11 for North America, 13 for Europe

#### Roaming

Full mobility and seamless roaming from cell to cell

#### Available transmit power

#### Receive Sensitivity (Typical)

**802.11g:**  
-90 dBm @ 6Mbps,  
-74 dBm @ 54Mbps

**802.11b:**  
-95 dBm @ 1Mbps

-90 dBm @ 11Mbps

#### Available transmit power (Typical)

- 2.412~2.472 GHz (IEEE802.11g)  
26 @ 6~24Mbps  
24 @ 36Mbps  
23 @ 48Mbps  
22 @ 54Mbps
- 2.412~2.462 GHz (IEEE802.11b)  
27 dBm @ 1~11Mbps

### Networking

#### Topology

Ad-Hoc, Infrastructure

#### Security

IEEE802.1x  
64/128/152-bit WEP encryption  
WPA-PSK/WPA2  
TKIP/AES

### Physical

#### Form Factor

32-bit PCI interface

#### Dimensions (LxWxH)

5.2 x 4.8 x 0.9in.(133 x 121 x 22mm)

### Environmental

#### Temperature Range

Operating Temperature: 0°C~40°C (32°F~104°F)  
Storage Temperature: -40~70°C (-40°F~158°F)

#### Humidity (non-condensing)

Operating Humidity: 10%~90% non-condensing  
Storage Humidity: 5%~95% non-condensing

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