



# EnGenius® DATASHEET

<b>Wireless-N USB 2.0 Adapter</b>	<b>EUB-9701 EXT2</b>
<b>2.4 GHz</b>	<b>802.11 b/g/n</b>
	<b>300 Mbps</b>

The Engenius Wireless-N USB Adapter (EUB-9701 EXT2) implements the latest 11n technology which extremely improves wireless signal for your computer than existing wireless 802.11g technology. The incredible speed of Wireless-N USB adaptor makes heavy traffic networking activities more flexible and takes the wireless into practical road. You could enjoy the racing speed of wireless connection, surfing on Internet without string wires.

Adding Engenius Wireless-N to your Notebook or Computer, it provides an excellent solution for doing media-centric activities such as streaming video, gaming, and enhances the QoS (WMM) without any reduction of performance. It extends 3 times network coverage and boosts 6 times transmission throughput than existing 11g product.

For more security-sensitive application, EUB-9701 EXT2 supports Hardware-based IEEE 802.11i encryption/decryption engine, including 64-bit/128-bit WEP, TKIP, and AES. Also, it supports Wi-Fi alliance WPA and WPA2 encryption. WPS support which makes users easier to setup WiFi security. Cisco CCX V1.0, V2.0 and V3.0 compliant.



Features	Benefits
Racing Speed up to 300Mbps data rate (2.4GHz 11N technology)	Enjoy the Internet connection in crazy-fast speed, without the bottleneck of stringing wires.
Media-intensive Networking activities	Capable of handling heavy data payloads such as MPEG video streaming, on-line gaming without delay of performance
WPA/WPA2 (IEEE 802.11i), WEP 64/128	Powerful data security.
WPS support (Wi-Fi Protected Setup)	Provides easy procedures to set up wireless security.
Support 2Tx * 2Rx Radios	With Intelligent Antenna enables
WMM (IEEE 802.11e) standard support	Wireless Multimedia Enhancements Quality of Service support (QoS)
2 Detachable Antenna design	Flexible with SMA connector design

\* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, 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

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54, 72, 84, 150 and 300Mbps (with 2-stream on both ends)

### Standards / Compliance

IEEE802.3, IEEE802.3u, IEEE802.11b, IEEE802.11g, 802.11n 2.0

### Regulation Certifications

FCC Part 15, ETSI 300/328/CE

### Operating Voltage

5 V  $\pm$  0.25V

### Status LEDs

LINK

### Drivers

Windows 2000/XP/Vista

### RF Information

#### Frequency Band

U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

#### 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, 14 for Japan, 13 for Europe

#### Receive Sensitivity (Typical)

- 2.412~2.472G(IEEE802.11b)  
-91dBm @ 1Mbps  
-90dBm @ 11Mbps
- 2.412~2.472G(IEEE802.11g)  
-90dBm @ 6Mbps  
-74dBm @ 54Mbps
- 2.412~2.472G(IEEE802.11N)  
-90 dBm @ MCS 8  
-65 dBm @ MCS 15

#### Available transmit power

- 2.412~2.472G(IEEE802.11b)  
18dBm @ 1~11Mbps
- 2.412~2.472G(IEEE802.11g)  
15 dBm @ 6Mbps  
14 dBm @ 54Mbps

- 2.412~2.472G(IEEE802.11N)  
15dBm

#### Antenna Configuration

2T2R Mode (detachable 2.4GHz antenna/2.0dBi gain)

#### Networking

##### Topology

Ad-Hoc, Infrastructure

##### Security

WPA/WPA2 (AES, 64, 128-WEP with shared-key authentication)  
Cisco CCS V1.0, V2.0 and V3.0 compliant

#### Physical

##### Form Factor

USB 2.0/1.1

##### Dimensions (HxWxD)

70(L) mm x 57.5(W) mm x 16(H) mm

##### Weight

55 g/ 2.0oz

#### Environmental

##### Temperature Range

Operating: 0°C to 50°C  
Storage: -10°C to 75°C

##### Humidity (non-condensing)

5%~95% Typical

#### Package Contents

One Wireless-N USB Adaptor  
One CD-ROM with User's Manual and Drivers  
One USB cable (1.0M)  
Two SMA antennas

#### Related Product(s)

11N Wireless USB Adapter/MiniPCI  
EUB-9701 (802.11n 2.0 Palm type)  
EUB-9702 (802.11n 2.0 USB 1T2R)  
ESR-9710 (802.11n 2.0 Router)

High-power Wireless USB Adapter  
EUB-362 / 362 EXT(802.11b/g)  
EUB-862 EXT2 (802.11a/b/g)

High power Outdoor AP-Client  
EOC-3220 Series (802.11b/g)  
EOC-8610 Series (802.11a/b/g)

High power Indoor AP-Client  
ECB-3220 Series / ECB-8610 Series

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