

EUB-9707

Wireless 802.11 b/g/n USB adapter

- 2.4 GHz
- 150Mbps
- USB 2.0



#### PRODUCT DESCRIPTION

The EUB9707 is a revolutionary 11N 1T1R USB adapter with external antenna. It is fully forward compatible with 802.11 b/g standard and support 1x1 N technology. This model is capable of achieving 3 times faster performance than G generation products. It features full coverage of wireless security including WEP 64/128, WPA and WPA2 and supports TKIP and AES encryption. Advanced external antenna design guarantees superior sensitivity and transmit power in comparison with tradition printed antenna. USB interface and multiple driver support allows EUB9707 to be installed on any popular OS (including Windows 7/XP/2000/Vista and MacOS). EUB9707 is definitely a production of mobility and flexibility.

#### PACKAGE CONTENT

- 1\* 802.11n USB adapter(EUB9707)
- 1\* CD (User's Manual)

EUB-9707 Datasheet Version 11112008

\*Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

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

BUSINESS CLASS

EUB-9707

## TECHNICAL SPECIFICATION

### > Hardware Specification

MAC/BB/RF	RT3070
Standard	IEEE802.3, IEEE802.3u, IEEE802.11b, IEEE802.11g, IEEE802.11n
Physical Interface	USB2.0
Operating Voltage	3.3V
LED Status	Link Activity
Antenna	Chip Antenna
PCB dimension	11mm x 33mm

### > RF Specification

Frequency Band	2.400 ~ 2.484 GHz
Modulation Technology	<ul style="list-style-type: none"> <li>• OFDM: BPSK, QPSK, 16-QAM, 64-QAM</li> <li>• DBPSK, DQPSK, CCK</li> </ul>
Operating Channels	11 for North America, 13 for Europe

#### Wireless Setting

- Operation Mode – Client mode
- Wireless Mode – 11b/ 11g /11n
- Channel Selection (Setting varies by Country)
- Channel Bandwidth (Auto, 20Mhz, 40Mhz)
- Transmission Rate
  - 11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps
  - 11n:

MCS index	Guard Interval 800ns		Guard Interval 400ns	
	20MHz(Mbps)	40MHz(Mbps)	20MHz(Mbps)	40MHz(Mbps)
0	6.5	13.5	7.2	15
1	13	27	14.4	30
2	19.5	40.5	21.7	45
3	26	54	28.9	60
4	39	81	43.3	90
5	52	108	57.8	120
6	58.5	121.5	65	135
7	65	135	72.2	157.5

Receive Sensitivity (Typical)	<ul style="list-style-type: none"> <li>● 2.412~2.472G(IEEE802.11b) ≤ -86 dBm</li> <li>● 2.412~2.472G(IEEE802.11g) ≤ -88 dBm</li> <li>● 2.412~2.472G(IEEE802.11N) ≤ -86 dBm</li> </ul>
Available transmit power	<ul style="list-style-type: none"> <li>● 2.412~2.472G(IEEE802.11b) ≥ 16dBm @1~11Mbps</li> <li>● 2.412~2.472G(IEEE802.11g) ≥ 16 dBm @6Mbps ≥ 12 dBm @54Mbps</li> <li>● 2.412~2.472G(IEEE802.11N) ≥ 16dBm</li> </ul>
Regulation Certifications	FCC Part 15, ETSI 300/328/CE

#### SOFTWARE FEATURES

Wireless	WPA/WPA2 (AES, 64,128-WEP with shared-key authentication) WPS PIN, PBC (WiFi Protected Setup) QoS-WMM
Drivers	Windows XP 32/64, 2000, Vista32/64, Mac OS X support

#### ENVIRONMENT & PHYSICAL

Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15% ~ 95% typical