EnGenius® | DATASHEET

802.11b/g/n USB adapter	EUB-9703

2.4GHz	150Mbps	11N USB adapter

PRODUCT DESCRIPTION

The EUB-9703 acts as a high performance 11b/g/n USB adapter. It supports **1T1R** MIMO architecture with fully forward compatible with IEEE802.11n draft 3.0 and IEEE 802.11b/g standard.

PACKAGE CONTENT

➢ 1* 802.11n USB adapter(EUB-9703)
➢ 1* CD (User's Manual)

Technical Specifications

HARDWARE SPECIFICATIONS

MAC/BB/RF	RT3070
Standard	IEEE802.3, IEEE802.3u, IEEE802.11b, IEEE802.11g, 802.11n (2.0)
Physical Interface	USB2.0
Operating Voltage	3.3V
LED Status	Link Activity
Antenna	Printed ANT
PCB dimension	17mm * 40mm

RF Specification

Frequency Band	2.400~2.484 GHz				
Modulation Technology	● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK				
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				

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)	● 2.412~2.472G(IEEE802.11b) (1Rx) <= -86 dBm ● 2.412~2.472G(IEEE802.11g) (1Rx) <= -88 dBm ● 2.412~2.472G(IEEE802.11N) (1Rx) <= -86 dBm

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

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Available transmit power	● 2.412~2.472G(IEEE802.11b)
	  >= 16dBm @1~11Mbps
	● 2.412~2.472G(IEEE802.11g)
	  >= 16 dBm @6Mbps
	  >= 12 dBm @54Mbps
	● 2.412~2.472G(IEEE802.11N)
	  >= 16dBm

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

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