

EUB – 9703

Atheros Wireless USB 2.0 Adapter

2.4 GHz / 5.0 GHz

802.11 a/b/g

108Mbps

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

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* 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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February 17, 2009

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 <table border="1"> <thead> <tr> <th rowspan="2">MCS index</th><th colspan="2">Guard Interval 800ns</th><th colspan="2">Guard Interval 400ns</th></tr> <tr> <th>20MHz(Mbps)</th><th>40MHz(Mbps)</th><th>20MHz(Mbps)</th><th>40MHz(Mbps)</th></tr> </thead> <tbody> <tr><td>0</td><td>6.5</td><td>13.5</td><td>7.2</td><td>15</td></tr> <tr><td>1</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr> <tr><td>2</td><td>19.5</td><td>40.5</td><td>21.7</td><td>45</td></tr> <tr><td>3</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>4</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>5</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>6</td><td>58.5</td><td>121.5</td><td>65</td><td>135</td></tr> <tr><td>7</td><td>65</td><td>135</td><td>72.2</td><td>157.5</td></tr> </tbody> </table>				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
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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																																																				

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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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