

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

* 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.

** All specifications are subject to change without notice.

3/16/2009

RF SPECIFICATION

Frequency Band	2.400 ~ 2.484 GHz																																																				
Modulation Technology	<ul style="list-style-type: none"> ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK 																																																				
Operating Channels	11 for North America, 13 for Europe																																																				
Wireless Setting	<ul style="list-style-type: none"> ● Operation Mode – Client mode ● Wireless Mode – 11b/ 11g /11n ● Channel Selection (Setting varies by Country) ● Channel Bandwidth (Auto, 20Mhz, 40Mhz) ● Transmission Rate <ul style="list-style-type: none"> -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps <table border="1" data-bbox="451 829 1432 1281"> <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
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"> ● 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.

** All specifications are subject to change without notice.

3/16/2009

Available transmit power	<ul style="list-style-type: none"> ● 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

* 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.

** All specifications are subject to change without notice.

3/16/2009