

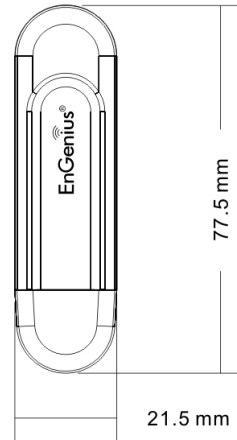
EUB-9801

Wireless Dual Band 802.11 a/b/g/n USB adapter

- 2.4 GHz b/g/n
- 5.0 GHz a
- USB 1.1/2/0



10.8 mm



77.5 mm

21.5 mm

PRODUCT DESCRIPTION

EUB9801 is a new generation dual band client adapter. It supports both 2.4Ghz and 5Ghz bands with high performance. It applies **2T2R** architecture with full compatibility with IEEE 802.11n and backward support for legacy b/g APs. Most importantly, 5Ghz band guarantees an interference-free network access.

PACKAGE CONTENT

- 1* Dual Band USB adapter (EUB9801)
- 1* QIG
- 1* CD (User's Manual)

EUB-9801 Datasheet Version 03042009

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, 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-9801

| TECHNICAL SPECIFICATION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| > Hardware Specification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CPU | RT3572 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard | IEEE802.11b, IEEE802.11g, IEEE802.11n (2.0) IEEE802.11a IEEE802.11e (WMM), I, f and h standards, IEEE802.1x | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Physical Interface | USB 1.1 / 2.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operating Voltage | 5V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LED Status | Link Activity & PWR | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| WPS | WPS button | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| > RF Specification | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Frequency Band | 2.400 ~ 2.484 GHz and 5.180~5.825 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, 14 for Japan, 13 for Europe | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wireless Setting | <ul style="list-style-type: none"> Operation Mode – Client Wireless Mode – 11a / 11b / 11g / 11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate <ul style="list-style-type: none"> -11a: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps -11n: <table border="1" data-bbox="570 1304 1430 1818"> <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> <tr><td>8</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr> <tr><td>9</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>10</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>11</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>12</td><td>78</td><td>162</td><td>86.7</td><td>180</td></tr> <tr><td>13</td><td>104</td><td>216</td><td>115.6</td><td>240</td></tr> <tr><td>14</td><td>117</td><td>243</td><td>130</td><td>270</td></tr> <tr><td>15</td><td>130</td><td>270</td><td>144.4</td><td>300</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 | 8 | 13 | 27 | 14.4 | 30 | 9 | 26 | 54 | 28.9 | 60 | 10 | 39 | 81 | 43.3 | 90 | 11 | 52 | 108 | 57.8 | 120 | 12 | 78 | 162 | 86.7 | 180 | 13 | 104 | 216 | 115.6 | 240 | 14 | 117 | 243 | 130 | 270 | 15 | 130 | 270 | 144.4 | 300 |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 13 | 27 | 14.4 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | 26 | 54 | 28.9 | 60 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 39 | 81 | 43.3 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | 52 | 108 | 57.8 | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 78 | 162 | 86.7 | 180 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | 104 | 216 | 115.6 | 240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 117 | 243 | 130 | 270 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 130 | 270 | 144.4 | 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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| Receive Sensitivity (Typical) | <ul style="list-style-type: none"> ● 2.412~2.472G(IEEE802.11b) (1Rx) -90dBm @ 1Mbps ● 2.412~2.472G(IEEE802.11g) (2Rx) -90dBm @ 6Mbps -71dBm @ 54Mbps ● 2.412~2.472G(IEEE802.11n) (2Rx) -88 dBm MCS 8 -69 dBm MCS 15 ● 5.180~5.825G(IEEE802.11a) (2RX) -90dBm @ 6Mbps -71dBm @ 54Mbps ● 5.180~5.825G(IEEE802.11n) (2RX) -88dBm @ MCS 8 -68dBm @ MCS 15 |
| Available transmit power | <ul style="list-style-type: none"> ● 2.412~2.472G(IEEE802.11b) 18 dBm @ 1~11Mbps ● 2.412~2.472G(IEEE802.11g) 17 dBm @6Mbps 15 dBm @54Mbps ● 2.412~2.472G(IEEE802.11n) 15dBm @MCS 8 ● 5.180~5.825G(IEEE802.11a) 15dBm ● 5.180~5.825G(IEEE802.11n) 13dBm |
| Regulation Certifications | FCC Part 15, ETSI 300/328/CE |

SOFTWARE FEATURES

| | |
|----------|--------------------------------------------------|
| Wireless | WEP, WPA / WPA2 (AES / TKIP) WPS, WMM |
| Drivers | Windows 2000/XP/Vista, Linux 2.4 and 2.6, MAC OS |

ENVIRONMENT & PHYSICAL

| | |
|---------------------------|----------------------------------------------------|
| Temperature Range | 0 to 45° C - Operating, -10 to 70 ° C - Storage |
| Humidity (non-condensing) | 15% ~ 95% typical |
| Dimension | 77(L) mm x 23.5(W) mm x 11(H) mm |