



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

EAP9550 is a powerful and multi-functioned 11n Access Point and it can act three modes AP/WDS/Universal Repeater. Smoke detector appearance will minimize visibility. So this model can work properly at Hotel or public area.

EAP9550 is a Wireless Network device that delivers up to 6x faster speeds and 7x extended coverage than 802.11g devices. Product's RF performance is finely tuned so it will bring best wireless signal for each client. EAP9550 supports home network with superior throughput, performance and unparalleled wireless range. To protect data during wireless transmissions, EAP9550 encrypts all wireless transmissions through WEP data encryption and supports WPA/WPA2. Its MAC address filter allows users to select stations with access to connect network. EAP9550 thus is the best product to ensure network quality for hotspots.



Package Content

- 1* 11N multi-function Access Point (EAP9550)
- 1* 12V/1A Power Adapter
- 1* Wall mount screw set
- 1* QIG
- 1* CD (User's Manual inside)

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

Features	Benefits
High Speed Data Rate Up to 300Mbps	Capable of handling heavy data payloads such as MPEG video streaming
IEEE 802.11n draft Compliant and backward compatible with 802.11b/g	Fully compatible with IEEE 802.11b/g/n devices
Multi-modes selectable	Allowing users to select AP/WDS/Universal Repeater mode in various application
Point-to-point, Point-to-multipoint Wireless Connectivity	Allowing to transfer data from buildings to buildings
WDS (Wireless Distributed System)	Making wireless AP and Bridge mode simultaneously as a wireless repeater
Universal Repeater	The easiest way to your wireless network's coverage
Support Multi-SSID function (4 SSID) in AP mode	Allowing clients to access different networks through a single access point and to assign different policies and functions for each SSID by manager
WPA2/WPA	Powerful data security
MAC address filtering in AP mode	Ensuring secure network connection
User isolation support (AP mode)	Protecting the private network between client users.
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and saving cost
Keep personal setting	Keeping the latest setting when firmware upgrade
SNMP Remote Configuration Management	Helping administrators to remotely configure or manage the Access Point easily
QoS (WMM) support	Enhancing user performance and density

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

Technical Specifications

Hardware Specifications

Expansion Slots	N/A
Physical Interface	<ul style="list-style-type: none">● LAN: One 10/100Mbps● Reset Button● Power Jack
LEDs Status	<ul style="list-style-type: none">● Power/ Status● LAN (10/100Mbps)● WLAN (Wireless Connection)
Power Requirements	<ul style="list-style-type: none">● Power Supply: 90 to 240 VDC \pm 10%, 50/60 Hz (depends on different countries)● Active Ethernet (Power over Ethernet, IEEE802.3af)- 48 VDC/0.375A● Device: 12V/1A
Regulation Certifications	<ul style="list-style-type: none">● FCC Part 15/UL, CE

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N	300Mbps	AP/ WDS/Universal Repeater
------------------	---------	----------------------------

➤ RF Specification

Frequency Band	2.400 ~ 2.484 GHz
Media Access Protocol	Carrier sense multiple access with collision avoidance (CSMA/CA)
Modulation Technology	- OFDM: BPSK, QPSK, 16-QAM, 64-QAM - DBPSK, DQPSK, CCK
Operating Channels	11 for North America, 14 for Japan, 13 for Europe
Receive Sensitivity (Typical)	- IEEE802.11n MCS8 @ -90dBm MCS15 @ -70dBm - IEEE802.11g 6Mbps@ -92dBm 54Mbps@ -72dBm - IEEE802.11b 1Mbps@ -93dBm 11Mbps@ -89dBm
Available transmit power	- IEEE802.11n/g 18dBm@6~9 Mbps / MCS9 16dBm@12~18 Mbps / MCS11 14dBm@24~36 Mbps / MCS13 13dBm@48~54 Mbps / MCS15 - IEEE802.11b 17.5dBm@1, 11Mbps
Antenna *2	Directional internal antenna TNC type; Peak Gain = 4dBi

● Antenna Specification

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009

EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

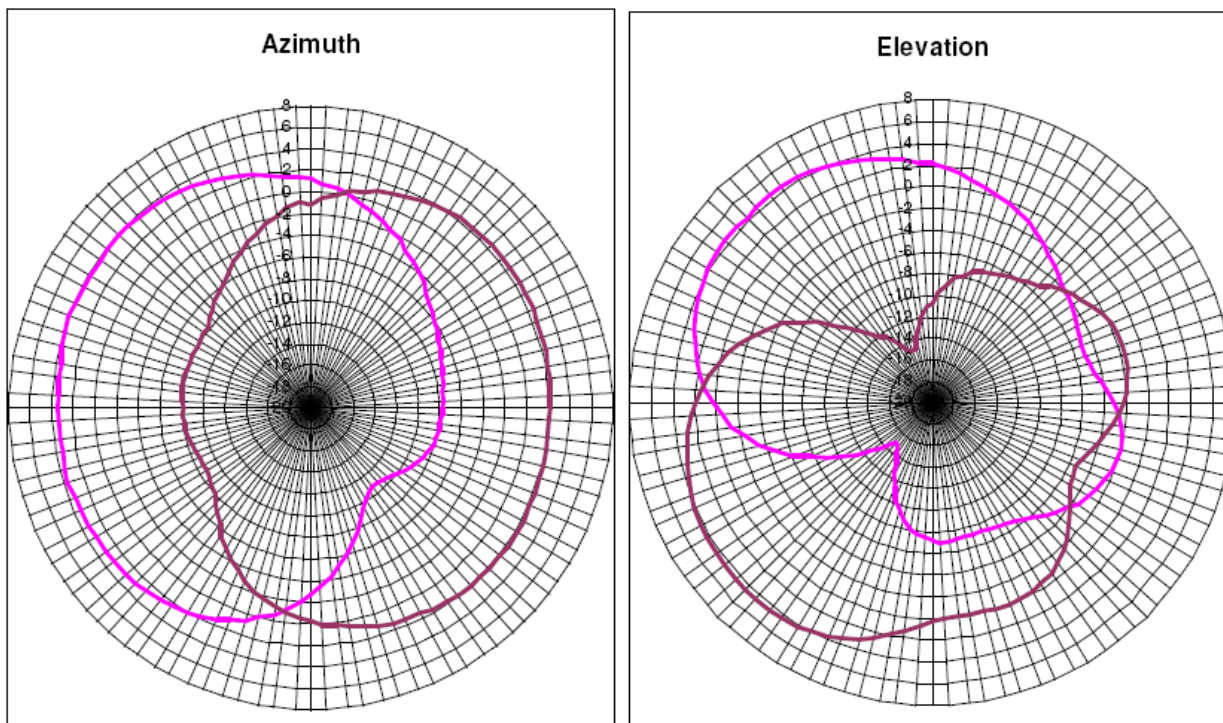
2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

Standard	IEEE 802.11n and 802.11 b/g/
Frequency Range	2.4 to 2.49 GHz,
Peak Gain	4 dBi
VSWR	2:1
Feed Impedance	50 Ohms
Power Handling	30 dBm
Interface	Two sets of soldering pads for 50 ohm, 1.13mm diameter, micro coax cable
Antenna Dimensions	100 x 50 (mm)
Weight	0.3oz (9 grams)

- **Antenna Radiation Patterns**



Software Features

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

Topology	Infrastructure																																																																																									
Operation Mode	Access Point / WDS / Universal Repeater																																																																																									
LAN	DHCP Server DHCP Client																																																																																									
Wireless	<p>Wireless Mode – 11b / 11g / 11n / Disable</p> <p>Transmission Rate</p> <ul style="list-style-type: none"> ➤ 11 b/g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps ➤ 11n: <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> <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> <p>Signal Strength</p> <p>Bandwidth Selection- 40/20 MHz for 11n</p>	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																																																																																						
Security	<p>WEP Encryption-64/128 bit</p> <p>WPA Personal (WPA-PSK using TKIP or AES)</p> <p>WPA Enterprise (WPA-EAP using TKIP)</p> <p>802.1x Authenticator</p> <p>Hide SSID in beacons</p> <p>Multiple SSID with 802.1q VLAN tagging (up to 4 SSIDs) in AP mode</p> <p>MAC Filter(AP mode)</p>																																																																																									

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N	300Mbps	AP/ WDS/Universal Repeater
------------------	---------	----------------------------

	WLAN L2 isolation(AP mode) Wireless STA (Client) connected list (Idle/Connection Time, Pkt statistics)
QoS	WMM

Management

Configuration	Web-based configuration HTTP / Telnet
Firmware Upgrade	Upgrade firmware via web-browser Keep latest setting when f/w update
Administrator Setting	Administrator password change
Reset Setting	Reboot (press 1 second) Reset to Factory Default (press 10 second)
System monitoring	Status, Statistics and Event Log
SNMP	v1, v2c
MIB	MIB I, MIB II (RFC1213) and Private MIB
Traffic Measurement	Per interface
Bandwidth Measurement	IP range and bandwidth management
Backup & Restore	Settings through Web

Environment & Physical

Temperature Range	<ul style="list-style-type: none"> Operating: 0°C to 45°C (32°F to 113°F) Storage: -20°C to 70°C (-4°F to 158°F)
Humidity (non-condensing)	5% ~ 95% typical
Dimensions	Diameter:120mm Height: 50mm
Weight	280g

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009



EAP-9550

11N Wall Mount

Access Point / WDS AP / Universal Repeater

2.4GH/ 2Tx2R 11N

300Mbps

AP/ WDS/Universal Repeater

V1.0

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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.

9/1/2009