

ECB9500 is a powerful and multi-functioned 11n product with 7 major multi-functions, is designed to operate in every working environment for enterprises.

ECB9500 is a Wireless Network device that delivers up to 6x faster speeds and 7x extended coverage than 802.11g devices. ECB9500 supports home network with superior throughput, performance and unparalleled wireless range. With user-friendly WPS function, it helps users to connect to wireless device simply with a one-push button.

To protect data during wireless transmissions, ECB9500 encrypts all wireless transmissions through WEP data encryption and supports WPA/WPA2. ECB9500 also supports IEEE 802.1x Supplicant function in CB mode. Its MAC address filter allows users to select stations with access to connect network. In addition, the function of user isolation protects private network between client users. ECB9500 thus is the best product to ensure network safety for enterprises.



Package Content

- 1* 11N multi-function Gigabit Client Bridge (ECB9500)
- 1* 12V/1A Power Adapter
- 1* Ethernet Cable
- 3* 5dBi 2.4GHz Dipole Antennas
- 1*QIG
- 1*CD (User's Manual)

* 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.

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ECB9500
Multi-Function Gigabit
Wireless-N Client Bridge

2.4GH/2Tx3R 11N
300Mbps
Client bridge/AP/WDS/
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-Function, 7 functions	Allowing users to select different mode in various environment
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/ IEEE 802.1x support	Powerful data security
802.1x Supplicant support (CB & CR mode)	More powerful data security in Client Bridge mode
MAC address filtering in AP mode	Ensuring secure network connection
User isolation support (AP mode)	Protecting the private network between client users.
PPPoE function support (CR mode)	Easy to access the internet via ISP service authentication
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and saving cost
Keep personal setting	Keeping the latest setting when firmware upgrade
Support RSSI indicator bar (CB & CR mode)	Allowing to select the best signal to connect with AP easily
SNMP Remote Configuration Management	Helping administrators to remotely configure or manage the Access Point easily
QoS (WMM) support	Enhancing user performance and density

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Technical Specifications

Hardware Specifications

Expansion Slots	N/A
Physical Interface	<ul style="list-style-type: none"> ● LAN: One 10/100/1000Mbps ● Reset Button ● Power Jack ● WPS push button (Wi-Fi Protected Setup)
LEDs Status	<ul style="list-style-type: none"> ● Power/ Status ● LAN (10/100/1000Mbps) ● 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

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➤ **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 @ -91dBm MCS15 @ -74dBm - IEEE802.11g (3RX) 6Mbps@ -92dBm 54Mbps@ -75dBm - IEEE802.11b (1RX) 1Mbps@ -93dBm 11Mbps@ -91dBm
Available transmit power	- IEEE802.11n/g 19dBm@6~9 Mbps / MCS9 18dBm@12~18 Mbps / MCS11 17dBm@24~36 Mbps / MCS13 16dBm@48~54 Mbps / MCS15 - IEEE802.11b 18dBm@1, 11Mbps
Antenna *3	Omni-directional external antenna TNC type; Peak Gain = 5 dBi (Reverse)

Software Features

Topology	Infrastructure
Operation Mode	Client Bridge / Access Point / WDS AP / WDS Bridge / Client Router / Router / Universal Repeater
LAN	DHCP Server DHCP Client
Wireless	Wireless Mode – 11b / 11g / 11n / Disable Channel Selection (Setting varies by Country) Transmission Rate

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	<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 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
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Security	<p>WEP Encryption-64/128 bit WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator 802.1x Supplicant- MD5/TTLS (CB & CR mode) Hide SSID in beacons Multiple SSID with 802.1q VLAN tagging (up to 4 SSIDs) in AP mode MAC Filter(AP mode) WLAN L2 isolation(AP mode) Wireless STA (Client) connected list (Idle/Connection Time, Pkt statistics)</p>																																																																																									
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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	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	125mm (L) x 108mm (W) x 31mm (H)
Weight	350g

V1.0

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