THE LEADER IN LONG RANGE BUSINESS CLASS WIRELESS DATA

EnGeniius ECB150

Long Range Wireless-N Indoor AP/CB/WDS

Key Differentiators

HIGH-POWER,

LONG-RANGE WIRELESS-N

 Up to 26dBm RF Tx power provides 2x greater signal coverage compared to other competitive offerings

COMPLIANT WITH 802.11B/G/N AND 3X SPEED OVER LEGACY 802.11G ACCESS POINTS

 Delivers up to 150Mbps throughput over wireless for greater overall performance and connectivity

MULTIPLE OPERATION MODES

• Wireless-N Access Point, Client Bridge, WDS Access Point, WDS Bridge, Repeater, or AP Router

INDUSTRY STANDARD ENCRYPTION

• WEP, WPA/WPA2, MAC Address Filtering

SSID-TO-VLAN MAPPING

 Supports 802.1q mapping of SSIDs and up to four VLANs

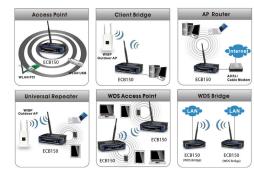
IEEE802.3AF PoE COMPLIANT

- Supports Power-over-Ethernet (IEEE 802.3af) and enables deployment in ceilings and other areas where power outlets may not be available.
- Optional (purchased separately): Recommended PoE Injector: EnGenius EPE5818af (802.3af compliant)

DETACHABLE ANTENNA

• Detachable omni directional 5dBi antenna

Ideal For:



The EnGenius ECB150 is a 2.4GHz Wireless150N Indoor Access Point / Client Bridge / WDS / Repeater that features high transmit power (up to 26 dBm) for long range Wi-Fi coverage, wireless speeds up to 150Mbps and a Fast Ethernet port for connecting to a switch or router. It's an ideal solution for connecting computers and other devices to an existing network.

This high-powered AP/CB is designed to expand the number of users and devices that can access an existing wireless network within large or multi-story buildings or expansive, client-intensive facilities like hotels, resorts, hospitals, office buildings, universities or other multi-building campus facilities.

The ECB150 transmit power of up to 26dBM delivers longer range than ordinary AP/CB in its class. In addition to working as a client bridge, it can be also configured to operate in several other modes – as a Wireless-N Access Point, Client Bridge, WDS Access Point, WDS Bridge, Repeater, or AP Router. It operates in the 2.4GHz frequency spectrum supporting the 802.11b/g/n standards.

For deployments on ceilings or in crawlspaces where power outlets may be scarce, the ECB150 is also PoE (Power-over-Ethernet) capable when used with a PoE injector, like the 802.3af compliant EnGenius EPE5818af.

The ECB150 includes EZ Controller Access Point Management software that provides a robust suite of tools for IT managers, installers and network administrators who deploy, manage and maintain wireless networks. With EZ Controller, EnGenius Wireless Indoor and Outdoor Access Points and Client Bridges can be configured, controlled and monitored from one central location.

	ECB3500 High-powered Wireless-G AP/CB	ECB9500 Wireless-N AP/CB	ECB 150 High-powered Wireless-N AP/CB	ECB300 High-powered Wireless-N AP/CB	ECB350 High-powered Wireless-N AP/CB
Features					
Frequency	802.11 b/g	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Data speed rate	Up to 54Mbps	Up to 300Mbps	Up to 150Mbps	Up to 300Mbps	Up to 300Mbps
LAN Interface	10/100	10/100/1000	10/100	10/100	10/100/1000
Transmit power (in dBm)	28dBm	20dBm	26dBm	29dBm	29dBm
Transmit power (in mW)	600mW	100mW	400mW	800mW	800mW
Antenna	2x 5dBi Omni RP-TNC Female	3x 5dBi Omni RP-TNC Female	1x 5dBi Omni RP-SMA Female	2x 5dBi Omni RP-SMA Female	2x 5dBi Omni RP-SMA Female
Users support	Up to 32	Up to 32	Up to 32	Up to 32	Up to 50
Operation Modes					
Access Point	•	•	•	•	•
Client Bridge	•	•	•	•	•
Client Router	•	•			٠
AP Router	•	•	•	•	•
WDS Bridge	•	•	•	•	•
WDS AP	•	•	•	•	•
WDS Station					•
Universal Repeater	•	•	•	•	•
Security					
SSIDs blocking	•	•	•	•	•
Client isolation	•	•	•	•	•
VPN pass-through	•		•	٠	•
MAC address filting	•	•	•	٠	•
802.1x Radius support	•	•	•	•	•
SSID to VLAN mapping	•		•	•	•
Functions					
Multiple SSIDs	•	•	•	•	•
QoS (WMM)	•	•	•	•	•
Browser-based interface	•	•	•	•	•
AP Management Software (EZC)			•	•	•
IEEE 802.3af PoE Compliant	•	•	•	•	•

ECB150 - Technical Specifications

HARDWARE SPECIFICATIONS

MCU/RF	RTL8196C + RTL8188RE
Memory	32 MB
Flash	4 MB
Physical Interface	LAN: 1 x 10/100 Fast Ethernet (RJ-45) port Reset Button Power Jack
LED Indicators	Power/Status LAN (10/100Mpbs) WLAN (Wireless connection)
Power requirement	Power Supply: 90 to 240 VDC ± 10%, 50/60 Hz (Depends on different countries) Active Ethernet (Power over Ethernet, IEEE802.3af) 48 VDC/0.375A Device: 12V/1A

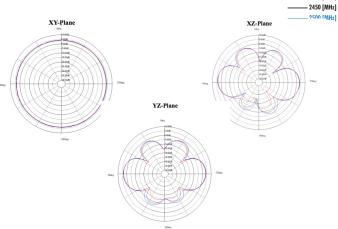
RF SPECIFICATIONS

Wireless standard	IEEE802.11 b/g/n			
Frequency	2.400 ~ 2.484GHz (b/g/n)			
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK			
Operating Channels	11 channels			
Transmit Power	802.11b (2.412~2.47GHz) 26 dBm @ 1Mbps 26 dBm @ 2Mpbs 26 dBm @ 5.5Mbps 26 dBm @ 11Mbps	802.11g (2.412~2.47GHz) 26 dBm @ 6Mbps 26 dBm @ 9Mbps 25 dBm @ 12Mbps 25 dBm @ 12Mbps 24 dBm @ 24Mbps 24 dBm @ 36Mbps 23 dBm @ 48Mbps 23 dBm @ 54Mbps	802.11n(2.412-2.47GHz) 26 dBm @ MCS0/MCS8 26 dBm @ MCS1/MCS9 25 dBm @ MCS2/MCS10 25 dBm @ MCS3/MCS11 24 dBm @ MCS4/MCS12 24 dBm @ MCS4/MCS12 23 dBm @ MCS5/MCS14 23 dBm @ MCS7/MCS15	
Receiver Sensitivity	802.11b (2.412 ~ 2.472 GHz) best ≤ -93 dBm	802.11g (2.412 ~ 2.472 GHz) best ≤ -90 dBm	802.11n (2.412 ~ 2.472 GHz) best ≤ -88 dBm	
Antenna	1x external 5dBi SMA antenna (Diversity support)			

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: 0 to 50° C (32° to 122° F) Storage: -20 to 60° C (-4° to 140° F)
Humidity (non-condensing)	Operating: 90% or less Storage: 90% of less
Dimensions	L: 5.32"(135mm), W: 4.14"(105mm), H: 1.18"(30mm)
Weight	0.77 lb. (280g)
Certifications	FCC, CE, IC

Antenna Radiation Patterns



SOFTWARE SPECIFICATIONS

Infrastructure/Ad-Hoc	
Access Point/Client Bridge/Universal Repeater/WDS Bridge/WDS AP/AP Router	
Supports up to 4 BSSIDs	
IP (check validity and DHCP server IP range)	
DHCP range, lease time, client list	
Supports 802.1q (up to 4 VLANs) SSID to VLAN mapping	
Supports 802.1d Spanning Tree Protocol	
Wireless mode: 11b/11g/11n Channel selection (setting varies by country) Channel bandwidth (Auto, 20MHz, 40MHz) Transmission rate: 11n only, 11b/g/n mix, 11b only, 11b/g, 11g only	
VPN pass-through (PPTP, L2TP, IPSEC)	
WMM	
Software only	
WEP Encryption - 64/128 bit WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator SSID broadcast enable/disable WLAN MAC Address Filter WLAN L2 isolation (AP mode) Wireless STA (Client) connected list (Idle/Connection Time, Pkt statistics)	

MANAGEMENT

2400 [MHz]

Tx Power Control	Adjust transmit power by dBm		
Configuration	Web-based configuration (HTTP)/Telnet		
Telnet Server	CLI		
Firmware Upgrade	Upgrade firmware via web browser		
Administrator Setting	Administrator Username & Password change		
Reset Setting	Reboot (press 1 second). Reset to Factory Default (press 10 second)		
System Monitoring	Status Statistic and Event log		
SNMP	V1 , V2c		
MIB	MIB I , MIB II, and Private MIB		
Traffic Measurement	Per interface		
Auto-channel Selection	Automatically selecting least congested channel		
Bandwidth Measurement	IP range and bandwidth management		
Backup & Restore	Save & restore settings through Web interface		
Diagnosis	IP pinging statistics		
AP Detection	Scanning for available EnGenius APs		



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