ECB350

Business Class Gigabit Wired Indoor Long Range Wireless-N Access Point/Client Bridge

The EnGenius ECB350 is an ideal solution for expanding an existing network and increasing bandwidth to support additional users. This 2.4GHz Wireless-N Indoor Access Point/Client Bridge that features up to 29 dBm RF Tx (transmit) power for long range coverage, wireless speeds up to 300Mbps and a Gigabit Ethernet port for connecting to a switch or router.

The ECB350's robust transmit power, enhanced receive sensitivity and its MIMO (Multiple In/Multiple Out) antenna array extends wireless coverage and enhances connectivity to client devices even in areas where connections have been previously challenging or nonexistent.

This capability also helps to reduce the number of Access Points needed to deploy over large properties and helps to eliminate the need for roaming clients to constantly re-associate to different APs in the building or throughout the property.

This powerful and versatile, multi-functional 802.11n wireless device features eight different operation modes (Access Point/Client Bridge/Universal Repeater/WDS Bridge/WDS AP/WDS Station/AP Router/Client Router) to meet the changing needs of evolving business environments. The ECB350 is designed for extending networks within large or multi-story buildings or expansive, client-intensive facilities like hotels, resorts, hospitals, office buildings, universities or other multibuilding campus facilities that need to offer employees, guests, staff or students access to network resources likeprinters, content or the Internet.

The ECB350 includes EnGenius Zone 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 Zone Controller, EnGenius Wireless Indoor and Outdoor Access Points and Client Bridges can be configured, controlled and monitored from one central location.

Key Differentiators

HIGH-POWER, LONG-RANGE WI-FI

- Up to 29dBm RF Tx (transmit) power provides more than twice greater Wi-Fi coverage over mainstream competitors

WIRELESS-N WITH MULTIPLE OPERATION MODES

- Offers multiple operation modes for different network topologies. 8 operation modes: Access Point/Client Bridge/Universal Repeater/WDS Bridge/WDS AP/WDS Station/AP Router/Client Router

WIRELESS-N 6X SPEED OVER 802.11G NETWORKS

- MIMO delivers up to 300Mpbs speed rate

GIGABIT ETHERNET PORT

- Up to 10X faster data transfer than Fast Ethernet. Ideal for streaming videos, VOIP, music, and multimedia applications

SSID TO VLAN MAPPING

- Supports 802.1q mapping of SSIDs and up to 4 VLANs

802.3af POE COMPATIBLE

- Supports Power over Ethernet (IEEE 802.3af) and allows deployment in areas where power outlets are not available

DUAL HIGH GAIN DETACHABLE ANTENNA DESIGN

- 2x 5dBi upgradable antennas with optimized configuration and RF performance for increase wi-fi coverage and receive sensitivity

AP MANAGEMENT SOFTWARE

- Includes EnGenius Zone Controller for configuring, managing and monitoring multiple APs from one central location

Ideal For:

EnGenius®

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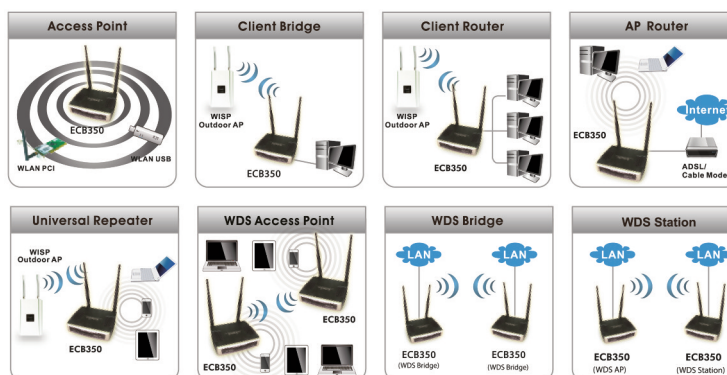
ECB350 — *Technical Specifications*

Specifications may change without notice.

HARDWARE SPECIFICATIONS

MCU/RF	AR7242 + AR9283
Memory	32 MB
Flash	8 MB
Physical Interface	LAN: 1 x 10/100/1000 Gigabit Ethernet (RJ-45) port Reset Button Power Jack
LEDs Status	Power/Status LAN (10/100/1000Mpbs) 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 ~ 2.472 GHz)	802.11g(2.412 ~ 2.472 GHz)	802.11n(2.412 ~ 2.472 GHz)
	29 dBm @ 1Mbps	29 dBm @ 6Mbps	26 dBm @ MCS0/MCS8
	29 dBm @ 2Mbps	29 dBm @ 9Mbps	26 dBm @ MCS1/MCS9
	29 dBm @ 5.5Mbps	28 dBm @ 12Mbps	25 dBm @ MCS2/MCS10
	29 dBm @ 11Mbps	28 dBm @ 18Mbps	25 dBm @ MCS3/MCS11
		24 dBm @ 24Mbps	24 dBm @ MCS4/MCS12
		24 dBm @ 36Mbps	24 dBm @ MCS5/MCS13
		23 dBm @ 48Mbps	23 dBm @ MCS6/MCS14
		23 dBm @ 54Mbps	23 dBm @ MCS7/MCS15

Receiver Sensitivity	802.11b (2.412 ~ 2.472 GHz) best ≤ -98 dBm 802.11g (2.412 ~ 2.472 GHz) best ≤ -93 dBm 802.11n (2.412 ~ 2.472 GHz) best ≤ -93 dBm
Antenna	2x external 5dBi SMA antennas (Diversity support)

XZ-Plane

XY-Plane

YZ-Plane

SOFTWARE SPECIFICATIONS

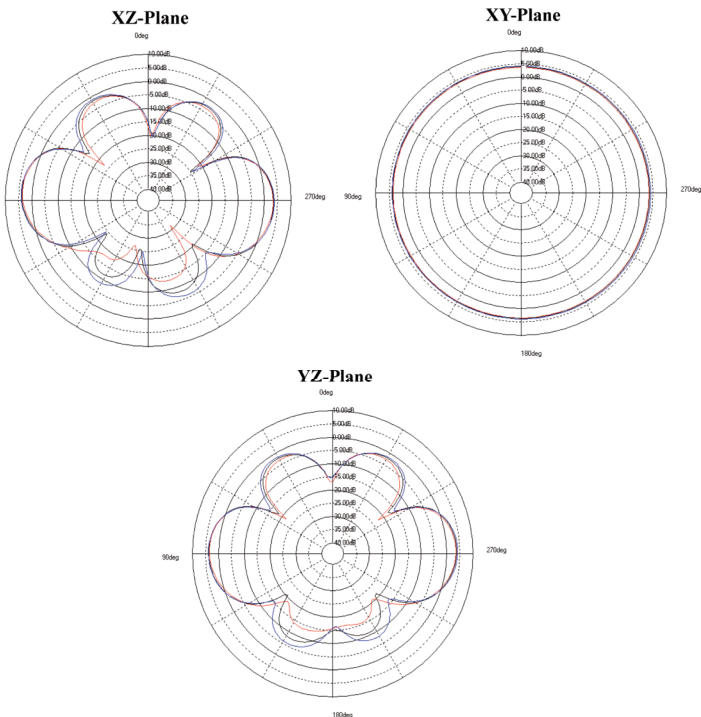|	
Topology	Infrastructure/Ad-Hoc
Operation Mode	Access Point/Client Bridge/Universal Repeater/WDS Bridge/WDS AP/WDS Station/AP Router/Client Router
Multiple BSSID	Supports up to 4 BSSIDs
LAN	IP (check validity and DHCP server IP range)
DHCP Server	DHCP range, lease time, client list
VLANs	Supports 802.1q (up to 4 VLANs) SSID to VLAN mapping
Spanning Tree	Supports 802.1d Spanning Tree Protocol
Wireless	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	VPN pass-through (PPTP, L2TP, IPSEC)
QoS	WMM
WPS	Software only
Security	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

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(RFC1213) 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

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

Ethernet port　　Reset to default　　Power DC inject

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