EnGenius®

ECB350
Long Range Multi-function Gigabit AP/CB

2.4GHz 300Mbps 11b/g/n 29dBm **AP/Router/WDS Bridge/WDS AP/WDS station/CB/CR/UP**

Package Contents
- 1* ECB350
- 1*12V/1A Power Adapter
- 1*QIG
- 1*CD (User's Manual)
- 1*Ethernet Cable
- 2 * Detachable Antenna

ECB350 is a 300Mbps wireless-n multi-function gigabit AP/CB which offers unlimited coverage, strong penetration, secure network management and 802.3af PoE connection.

Gigabit Ethernet ensure the high speed of Ethernet. External 5dBi antenna provides extended and stable wireless connection. Maxima 29dBm high power transmission offers at least 3 floors penetration in your environment. MSSID + VLAN make your data more secure and easy management. Standard PoE interoperable with 802.3af makes internet connection more flexible.

EAP350 designed with 8 operation modes, users can set different mode in different environments. It is a high-end model suitable for the usages of SOHO, Small offices, restaurants and …etc.

Software Features
System Requirement

System	Windows Windows7, 98, ME, NT, XP, 2000. Mac OS X (10.7)
Access method	Web Based (HTTP 1.0 / 1.1)
Browser Compatibility	Microsoft IE 6.0 or above, Firefox 2.0 or above

Status

System Status	System Information	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	IP Address, Subnet Mask, Default Gateway, DHCP, DNS.
	Current Wireless Setting	Operation mode, Wireless Mode, Channel/Frequency, L2 Isolation, MSSID Setting
Client List	List current associated clients. Show only authorized and associated clients	
System Log	Displays a list of events triggered	

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Wireless Functional List		
Operation mode	AP	
	Router	
	Client Router	
	Client Bridge	
	WDS AP	
	WDS Bridge	
	WDS Station	
	Universal Repeater	
WDS detail	WDS Station algorithm	
	WDS AP algorithm	
	WDS bridge algorithm	
802.11 mode options	b/g/n	
Channel setting	Manual	
	Auto / Best Channel Selection	
Transfer rate setting	Auto and Manual	
Output Power Control	Select by dBm	
Multiple BSSID (Multi AP)	4 BSSID for 2.4Ghz	
	Each BSSID should has its own WiFi & security settings	
Security	WEP	WEP(64/128bit)
	WPA/ WPA2	TKIP / AES
	Hidden ESSID	
	MAC address filtering	MAC address filtering (WLAN, up to 32 field)
	L2 Isolation	Client isolation
	802.1x Authenticator	MD5/ TLS/ TTLS, PEAP (Nice to Have)
	802.1x Supplicant	Only CB/CR modes
LAN Settings	IP (check validity and DHCP server IP range)	
DHCP server	DHCP Range, Lease Time, Client list	
VLAN	MSSID	VLAN tag on MSSID
	Management VLAN Ethernet Port VID	Only allow user with specified VID to access the device

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	Tag/ Untag Option	Independent VLAN setting can be enable or disable
	Add VLAN tag	Any packet that enters the Device without a VLAN tag will have a VLAN tag inserted with a PVID (Ethernet Port VID)
SNMP	SNMP V1/V2C MIBI, MIBII	- SNMP Active : Disabled / Enabled
		- Read Community
	Private MIB	- Set Community
		- System Location
		- System Contract
		- Trap Manager IP
Administration		User Name: admin
		Password: admin
Remote FW upgrade		
Backup/ Restore Setting		Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade		Firmware Upgrade Allow User to decide to Keep current setting.
Diagnosis		Address to Ping

Hardware Specifications			
Memory	32MB		
Flash	8MB		
Diameter * Height	135(L) x 105 (W) x 30(H)		
Physical Interface	LAN: 1 x 10/100/1000 Ethernet RJ-45 (802.3af PoE standard supported)		
	Reset button		
	Power Jack		
LED Definition	Power x1	Green	Booting: Blink at 1HBooting System Ready: On Firmware Upgrade: Blink at 4Hz System Off: Power Off
	WLAN x1	Green	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)
	LAN x1	Green	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)
Adapter	12V / 1A		

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Wireless Specifications			
Frequency Band	2.400～2.484 GHz(11b, 11g, 11n)		
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK		
Operating Channels	11 for North America, 14 for Japan, 13 for Europe		
Wireless Setting	Operation Mode – AP / Router/WDS AP/WDS Bridge/WDS Station/Client Bridge/Client Router/ Universal Repeater. Wireless Mode – 11b/ 11g /11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate (AP mode) - 11n only, 11b/g/n mix ,11b only ,11g only, 11b/g mix.		
Receive Sensitivity (Typical)	2.412 ~ 2.472 GHz (11b) best $\leqq$ -90 dBm 2.412 ~ 2.472 GHz (11g) best $\leqq$ -88 dBm 2.412 ~ 2.472 GHz (11n) best $\leqq$ -85 dBm		
Available transmit power (The Max. Power will be different depending on local regulations)	11b	1Mbps - 11Mbps	29
	11g	6Mbps - 9Mbps	29
		12Mbps - 18Mbps	28
		24Mbps - 36Mbps	24
		48Mbps - 54Mbps	23
	11n	MCS 0-1 / 8-9	26
		MCS 2-3 / 10-11	25
		MCS 4-5 / 12-13	24
		MCS 6-7 / 14-15	23
Antenna	External 5dBi SMA antenna		

Environment & Mechanical & Certification	
Temperature Range	0 to 50° C - Operating, -20 to 60 ° C - Storage
Humidity (non-condensing)	90% or less – Operating, 90% or less - Storage
Certification	FCC/CE/IC