

EnGenius

ECB600
ECB1750



EnGenius **Agenda**

- Product information
- Key Selling Point (HW)
- Key Selling Point (SW)
- Product comparison
- Product feature highlight



Product briefing

- IEEE802.11ac/a/b/g/n (ECB1750) and a/b/g/n complaint (ECB600)
- Dual concurrent architecture
- ECB1750: 450Mbps (2.4GHz) + 1300Mbps (5GHz)
ECB600: 300Mbps (2.4GHz) + 300Mbps (5GHz)
- AP/CB/WDS operation mode support (ECB1750)
- AP/CB/WDS (AP, Bridge)/AR/Repeater operation mode support (ECB600)
- Configure by Web UI or EZ Controller
- 8 SSIDs per radio with VLAN tagged
- SNMP v1/v2c/v3 and MIB I/II supported
- WEP/WPA/WPA2 wireless encryption
- Support IPv4/IPv6
- Intelligent connection (Band steering)
- Seamless stream service (Fast roaming)
- Manage and monitor by AP, SSID



Category: Indoor long range AP/CB

Model: ECB600/ECB1750

Marketing name: Wireless-N600/AC1750 long range dual band concurrent AP/CB

Key words: 802.11ac/a/b/g/n (ECB1750), 802.11a/b/g/n (ECB600), Long range, AP, WDS, 802.3at, PoE support, MSSID, VLAN

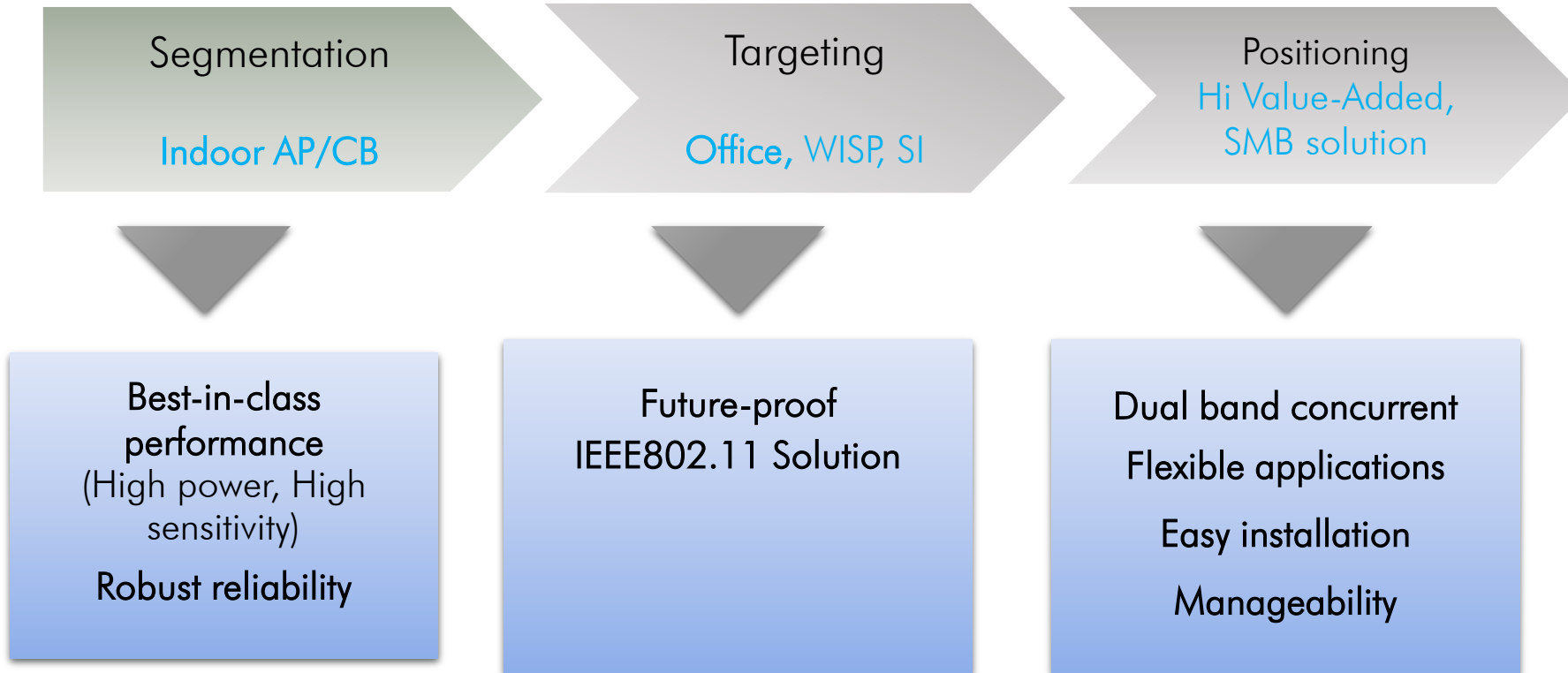
Product introduction

- + The **ECB600/ECB1750** are engineered to provide high power, high sensitivity throughput as well as equipped high gain antennas to achieve the greater coverage and long range transmission.
- + The robust mechanism and Power over Ethernet (PoE) enhances the ECB600/ECB1750. It can be installed on the wall easily and be powered by an Ethernet cable which is compliant with IEEE802.3at/af standard. This makes an Internet connection more flexible.
- + The ECB600/ECB1750 provides a wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE802.1X) to enforce the maximum security. To provide a steady and high transmitting data rate, EnGenius configured the band steering, clients limit and clients status for the administrator to monitor and manage the wireless service.

Physical appearance and package content – *ECB1750*

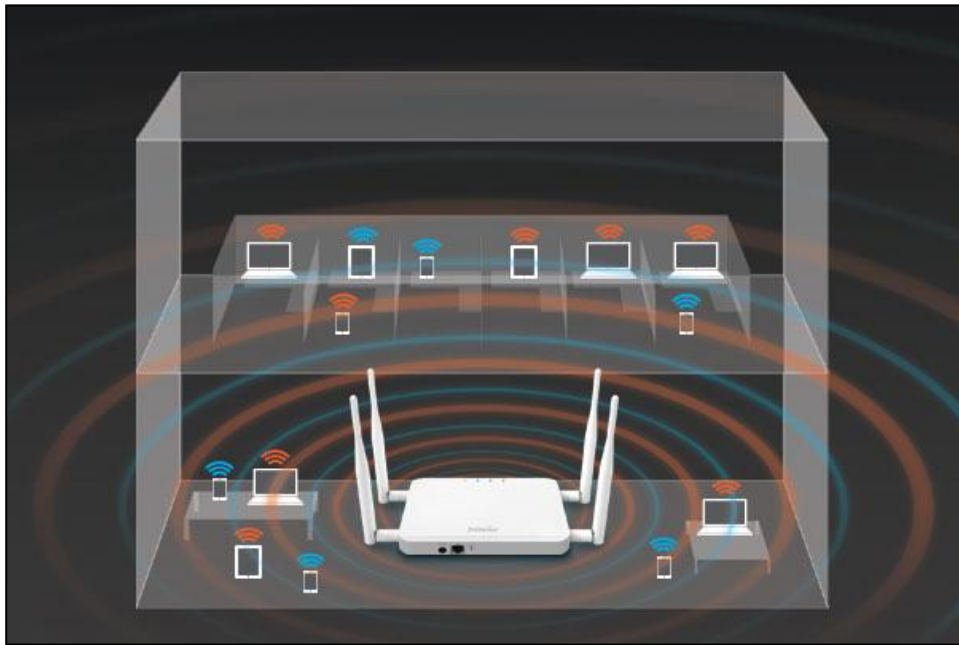


Segmentation & targeting



Dual-band concurrent wireless-AC configured (ECB1750)

Up to 450Mbps in the 2.4GHz and 1300Mbps on the 5GHz frequency band (ECB1750)



Powerful solution

Engineered with powerful hearts and ultra-concurrent design

ECB1750 – 2.4GHz: 28dBm, 5GHz: 28dBm

ECB600 – 2.4GHz: 29dBm, 5GHz: 26dBm

Widely coverage

The ECB600/ECB1750 are equipped with four/six detachable omni-antennas and achieve comprehensive signal-coverage.

Flexible and easily installation and deployment

The ECB600/ECB1750 are equipped with an active Ethernet port and supplied power via Ethernet cable.

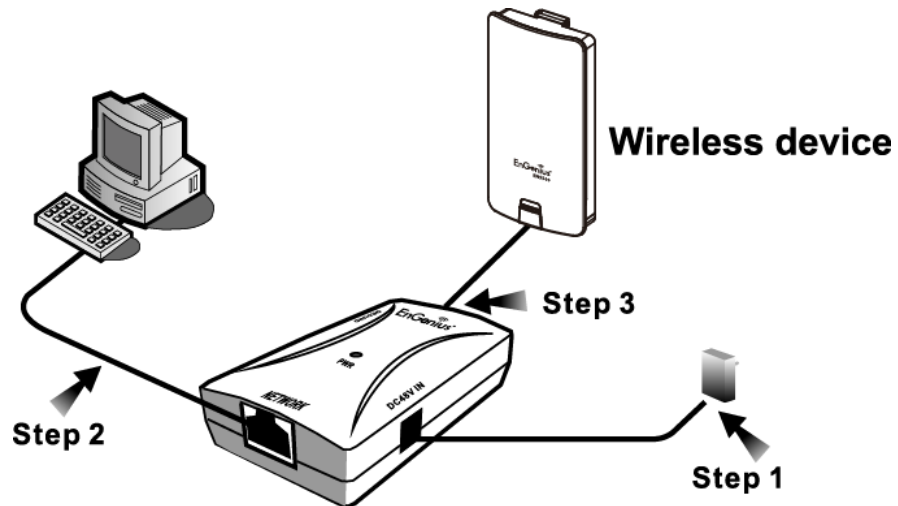
Workers can deploy devices flexible and easily as well as reduce the maintaining cost for employers.

Additionally, the ECB600/ECB1750 carries with wall mount holes and is hanged on te wall.



Power over Ethernet (PoE)

EnGenius suggests clients to adopt the EPE-4818G which is compliant with the 10/100/1000 T-Base standard. Also, an 12V/2A power source to provide the power source and Internet signal.



Step1: Plug the DC plug of AC/DC power adapter into a port of Inline Power Injection and the plug into a power outlet or power strip.

Step2: Run the cross-over type uplink Ethernet cable from Data Input Port to the Ethernet port on a PC.

Step3: Attach one straight Ethernet cable from the wireless device to the Power & Data Output port on the Inline Power injector.

Physical interface (ECB1750)



1 3 5	Detachable 5dBi 2.4GHz Omni-directional antennas	7	DC 12V/2A Input
2 4 6	Detachable 5dBi 5GHz Omni-directional antennas	8	10/100/1000 Ethernet port
		9	Reset button

Physical interface (ECB600)



1	2	Detachable 5dBi 2.4GHz Omni-directional antennas	5	DC 12V/2A Input
3	4	Detachable 5dBi 5GHz Omni-directional antennas	6	10/100/1000 Ethernet port
			7	Reset button

Flexible application

A variety of operation modes to serve multiple constituencies and applications.

ECB1750: AP/CB/WDS

ECB600: AP/CB/WDS (AP, Bridge)/AR/Repeater

5GHz-radio

Access Point, Client bridge, WDS AP, WDS bridge, WDS station

	Access point	Client bridge	WDS AP	WDS bridge	WDS station	Repeater
Access point	Available	Available	Available	Available	Available	Available
Client bridge	Available	N/A	Available	N/A	N/A	Available
WDS AP	Available	Available	Available	Available	Available	Available
WDS bridge	Available	N/A	Available	N/A	N/A	N/A
WDS station	Available	N/A	Available	N/A	N/A	N/A
Repeater	Available	Available	Available	N/A	N/A	Available

2.4GHz Radio

Access point, Client bridge, WDS AP, WDS bridge, WDS station

Enhanced users experience

Security

- ⇒ WEP Encryption-64/128/152 bit
- ⇒ WPA/WPA2 Personal
(WPA-PSK using TKIP or AES)
- ⇒ WPA/WPA2 Enterprise
(WPA-EAP using TKIP)
- ⇒ 802.1x Authenticator
- ⇒ Hide SSID in beacons
- ⇒ L2 isolation (AP mode)
- ⇒ Wireless STA (Client) connected list
- ⇒ Https support
- ⇒ SSH support
- ⇒ MAC filtering up to 50 fields

Control

- ⇒ CLI supported
- ⇒ 802.1x supplicant (CB Mode)
- ⇒ Multicast supported
- ⇒ Auto reboot
- ⇒ Green setting
- ⇒ BSSID support
- ⇒ Auto channel selection (Setting varies by regulatory domains)
- ⇒ Wi-Fi schedule
- ⇒ Save configuration as default (ECB1750 only)
- ⇒ Fast Handover (ECB1750 only)
- ⇒ Band Steering (ECB1750 only)

Management

- ⇒ Multiple SSID: 16 SSIDs, 8 SSIDs per Radio
- ⇒ SNMP V1/V2c/V3
- ⇒ MIB I/II, Private MIB
- ⇒ VLAN Tag / VLAN Pass-through
- ⇒ Clients statistics
- ⇒ RADIUS accounting
- ⇒ Guest network (ECB1750 only)
- ⇒ Fast Roaming (ECB1750 only)

Multiple SSIDs supported

The products support 8 SSIDs on both 2.4GHz and 5GHz frequency bands. The ECB dual band series can configure the multiple SSIDs and encryption for effective isolation between guests and staffs in the enterprise network.

Advanced load balance management-traffic shaping per SSID

The traffic shaping functions allows users to manage the inbound and outbound traffic of the device. By setting the percentage of data rate in each SSID, users can control the load of this device easily.

Maximum concurrent users

The ECB-series is capable of facilitating the connectivity up to 100+ clients (50 at least) simultaneously.

Multiple SSID-to-VLAN mapping

RADIUS accounting

To help operators to offload 3G to the Wi-Fi seamlessly, RADIUS accounting is supported in the EnGenius Enterprise AP. Data transmission between the mobile devices and RADIUS server is being well encrypted.

Band steering

When working in AP mode the 'Band Steering' function is available. Band steering steers the 5GHz-compatible clients to the 5GHz band by responding only on the 5GHz association request and not the 2.4GHz requests. It helps to leave more bandwidth for 2.4GHz devices operating in the 2.4GHz band.

Https supported

SSH supported

Secure Shell (SSH) is a cryptographic network protocol for securing data communication remote shell Services or command execution and other secure network services between two connected computers, via a secure channel over an insecure network, a server or a clients. The encryption used by SSH is intended to provide confidentiality and integrity of data over an unsecured network, such as the Internet.

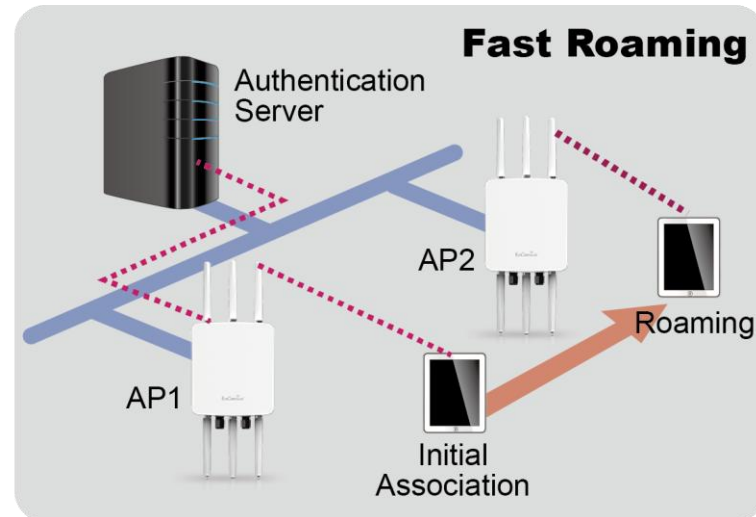
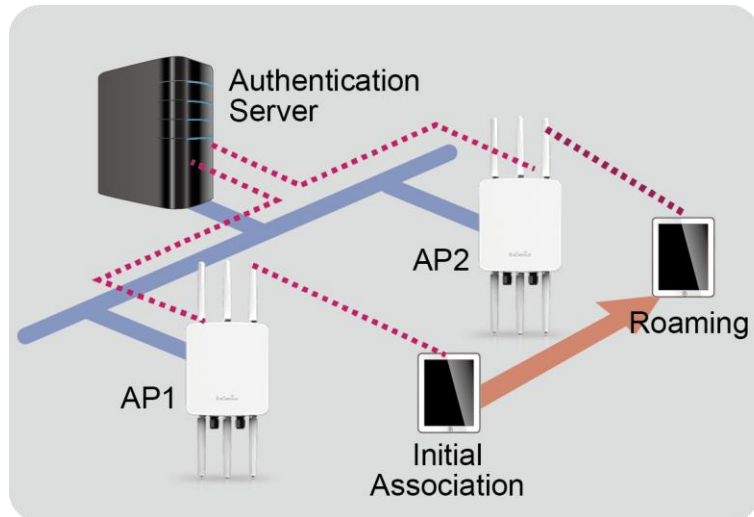
Guest network




E-mail alerts



Fast roaming

With fast roaming, a full authentication method is required to establish the initial client connection. This after which the fast roaming technique can subsequently be used when roaming between APs. This to minimize perceptible delay during re-association.



	ECB350	ECB600	ECB1750
IEEE standard	802.11b/g/n	802.11a/b/g/n	802.11ac/ab/g/n
Stream	2.4GHz: 2T2R	2.4GHz: 2T2R, 5GHz: 2T2R	2.4GHz: 3T3R, 5GHz: 3T3R
Picture			
Bandwidth	300Mbps	300Mbps+300Mbps	450Mbps+1300Mbps
Mode	AP/CB/CR/AR/WDS/Repeater	AP/CB/WDS (Bridge, AP)/AR/Repeater	AP/CB/WDS
Antenna	2* SMA 5dBi antenna	4* SMA 5dBi Antenna	6* SMA 5dBi Antenna
Ethernet	10/100/1000	10/100/1000	10/100/1000
TX power	2.4GHz: 29 dBm	2.4GHz: 29 dBm, 5GHz: 26dBm	2.4GHz: 28dBm, 5GHz: 28dBm
SSID	8	16	16
Band Steering	N	Y	Y
Fast Roaming	N	N	Y
Https	N	N	Y
SSH	N	N	Y

ECB1750

Wireless standard

- 802.11ac/a/b/g/n

Wireless throughput

- 5GHz: 3T3R, 1300Mbps
- 2.4GHz: 3T3R, 450Mbps

Wireless security

- WEP, 802.1x, WPA-PSK, WPA2-PSK, WPA, WPA2
- 802.1x authenticator
- Https, SSH supported

Wireless features

- MSSID up to 16 SSIDs
- Auto/Best channel selection
- Flexible operation mode
- VLAN + MSSID supported
- WDS AP/WDS Bridge/WDS Station

- Band steering
- Fast roaming
- CLI supported

High output power

- 28dBm (2.4GHz/5GHz)

High sensitivity

- 5GHz: -93dBm, 2.4GHz: -96dBm

Management

- SNMP, V1/V2c, Private MIB
- EZ Controller supported (NMS tool)
- Guest network
- E-mail alerts

ECB600

Wireless standard

- 802.11a/b/g/n

Wireless throughput

- 5GHz: 3T3R, 300Mbps
- 2.4GHz: 3T3R, 300Mbps

Wireless security

- WEP, 802.1x, WPA-PSK, WPA2-PSK, WPA, WPA2
- 802.1x authenticator
- Hidden BSSID
- L2 supported
- MAC filtering (up to 32 fields)
- MAC + VLAN supported

Antenna design

- 4* SMA-type connector

Wireless features

- MSSID up to 16 SSIDs (per band)
- Auto/best channel selection
- Flexible operation mode
- VLAN + SSID supported
- WDS AP/WDS Bridge/WDS Station

High output power

- 2.4GHz: 29dBm, 5GHz: 26dBm





High sensitivity

- 5GHz: -93dBm, 2.4GHz: -96dBm

Management

- SNMP, V1/V2c, Private MIB
- EZ Controller supported (NMS tool)

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