

## ECB600

### Dual Band Long Range Multi-Function Access Point/ Client Bridge

2.4GHz+5GHz 300Mbps+300Mbps 29dBm AP/CB/WDS/Repeater



**ECB600** is a wireless-11n 600Mbps (300Mbps + 300Mbps) High Power Dual Band concurrent Access Point/ Client Bridge. It allows simultaneous operation of 2.4GHz and 5GHz wireless network. With media-optimized performance, you can enjoy internet surfing more smoothly and with less lag.

Maxima 29dBm high power transmission provides extended coverage in your environment. MSSID + VLAN make your data more secure and easy management. Standard PoE interoperable with 802.3af/at makes internet connection more flexible.

ECB600 designed with 4 detachable high gain antennas which deliver larger coverage and higher throughput in the environment. Elegant body and white outlook will upgrade aesthetic feeling on your desk in working environment. ECB600 is the best choice in business office.

#### Package Contents

- 1\* ECB600
- 1\*Power Adapter
- 1\*QIG
- 1\*CD (User's Manual)
- 1\*Ethernet Cable
- 1\*Wall Mount kit
- 4\*Detachable Antenna

<b>Software Features</b>		
<b>System Requirement</b>		
System	Windows Windows7, 98, ME, NT, XP, 2000. Mac OS X (10.4)	
Access method	Web Based (HTTP 1.0 / 1.1)	
Browser Compatibility	Microsoft IE 6.0 or above, Firefox 2.0 or above	
<b>Status</b>		
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		
	CB		
	WDS		
	Repeater		
WDS detail	WDS AP		
	WDS bridge		
	WDS station		
802.11 mode options	a/b/g/n		
Band Steering	Band steering steers 5GHz-compatible clients to 5GHz band and leave 2.4 GHz band for single band (2.4GHz) client using.		
Channel setting	Manual		
	Auto / Best Channel Selection		
Transfer rate setting	Auto and Manual		
Output Power Control	Select by dBm		
Multiple BSSID (Multi AP)	8 BSSID for 2.4Ghz , another 8BSSID for 5Ghz		
	Each BSSID should has its own WiFi & security settings		
WPS	Software only		
Security	WEP	WEP(64/128bit)	
	WPA/ WPA2-PSK	TKIP / AES	
	WPA/WPA2 Enterprise	Supported	
	MAC address filtering	MAC address filtering (WLAN, up to 50 field)	
		Support EAP	EAP-TLS
	EAP-TTLS/MSCHAPv2		
	PEAPv0/EAP-MSCHAPv2		
	PEAPv1/EAP-GTC		
	EAP-SIM		
	EAP-AKA		
	802.1x Authenticator		MD5/ TLS/ TTLS, PEAP
	Hidden ESSID	Supported	
	MAC address	MAC address filtering (WLAN, up to 50 field)	

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	L2 Isolation	Supported
LAN Settings		IP (check validity)
VLAN	MSSID	VLAN tag on MSSID
	Management VLAN Ethernet Port VID	Only allow user with specified VID to access the device
	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)
	VLAN Pass through	VLAN pass through over WDS bridge
SNMP	SNMP V1/V2C	- SNMP Active : Disabled / Enabled
	MIBI, MIBII	- SNMP Version : V1/V2c/ALL
	Private MIB	- Read Community - Set Community - System Location - System Contract - Trap Active : Disabled / Enabled - Trap Manager IP
	SNMPv3	
QoS		WMM (Default) Load Balance Per SSID
Administration		User Name (set as "admin", can be changed by user) Password (c set as "admin", can be changed by user)
Backup/ Restore Setting		Save Current Setting Restore Saved Setting Reset to Factory Default
Firmware Upgrade		supported
UPnP		Supported
Firmware Upgrade		supported
Advanced Management		Auto Reboot CLI NMS (EZ Controller) supported
<b>Hardware Specifications</b>		
MCU	AR9344+AR9382	
Memory/ Flash	64MB / 16MB	

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Dimension	189mm x 140mm x 26mm		
Physical Interface	LAN: 1 x 10/100/1000 Gigabit Ethernet (802.3at PoE standard supported)		
	Reset		
	Power Jack		
	Power on/off switch		
LED Definition	Power x1	Orange	Booting: Blink at 1H Booting System Ready: On Firmware Upgrade: Blink at 4Hz System Off: Power Off
	LAN x1	Blue	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)
	WLAN x2	2.4G Blue 5G Blue	Link: Solid Light / Active: Blinking (Receiving/ Transmitting data)
Adapter	12V / 2A		
<b>Wireless Specifications</b>			
Frequency Band	Radio I: 11b/g/n : 2.412~2.484 GHz Radio II: 11a/n :5.18 ~ 5.24 & 5.26 ~ 5.32 & 5.5 ~ 5.7 & 5.745 ~ 5.825 GHz		
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK		
Operating Channels	2.4G (11 for North America, 14 for Japan, 13 for Europe) 5G (TBD)depend on what region		
Wireless Setting	Operation Mode – AP / CB/ WDS / Repeater Wireless Mode – 11a/ 11b/ 11g /11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate – 2.4GHz: 11n only ,11b/g/n mix ,11b only ,11b/g, 11g only 5GHz: 11n only mode, 11a/n mix mode, 11a only mode		

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Receive Sensitivity (Typical)	<b>802.11b</b> -99dBm @ 1Mbps -93dBm @ 11Mbps <b>802.11g</b> -96dBm @ 6Mbps -82dBm @ 54Mbps <b>802.11n (2.4GHz)</b> -97dBm @ MCS0 -78dBm @ MCS7 -96dBm @ MCS8 -76dBm @ MCS15			<b>802.11a</b> -90dBm @ 6Mbps -72dBm @ 54Mbps <b>802.11n (5GHz)</b> -89dBm @ MCS0 -70dBm @ MCS7 -89dBm @ MCS8 -70dBm @ MCS15		
Available transmit power (2 stream) (The Max. Power may 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	29			
		MCS 2-3 / 10-11	28			
		MCS 4-5 / 12-13	24			
	11a	MCS 6-7 / 14-15	23			
		6Mbps - 9Mbps	26			
		12Mbps - 18Mbps	25			
		24Mbps - 36Mbps	24			
	11n	48Mbps - 54Mbps	23			
		MCS 0-1 / 8-9	26			
MCS 2-3 / 10-11		25				
11n	MCS 4-5 / 12-13	24				
	MCS 6-7 / 14-15	23				
Antenna	External Omni Detachable Antenna (2.4GHz *2/ 5GHz *2)					

### Environment & Mechanical

Temperature Range	0 to 50° C - Operating, -20 to 60 ° C - Storage
Humidity (non-condensing)	90% or less – Operating, 90% or less - Storage

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Certification	
FCC	Certified
CE	Certified
IC	Certified