

The Wireless High Power and High Gain Multi-Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the dual band 2.4/5 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps)/ 802.11a (5GHz, 54Mbps) wireless standards.

ECB-8610 have high transmitted output power and high receivable sensitivity. High output power and high sensitivity can extend range and coverage to reduce the roaming between APs to get more stability wireless connection. It also can reduce the expense of equipment in the same environment.

To protect your wireless connectivity, ECB-8610 encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA2/WPA/802.1x for powerful security authentication. The MAC addresses filter lets you select exactly which stations should have access to your network.



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 26 dBm in 11b/g	Excellent output power spreads the operation distance
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
MAC address filtering (AP Mode)	Ensures secure network connection
SNMP/Telnet Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and cost savings

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## Technical Specifications

### Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

### Standards

IEEE802.11a/b/g, IEEE802.3, IEEE802.3u, IEEE802.3af, IEEE802.1f, IEEE802.1x

### Compatibility

IEEE 802.11a/ IEEE 802.11g/ IEEE 802.11b

### Power Requirements

Power Supply: 90 to 240 VDC  $\pm$  10% (depends on different countries)

Device: 12 V/ 1A

Ethernet POE in: 36~57VDC for 802.3af

### Status LEDs

LAN: Link, WLAN: Link, Power: on/off

### Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

### RF INFORMATION

#### Frequency Band

**802.11a:** 5.15~5.25GHz, 5.25~5.35GHz, 5.47~5.725GHz, 5.725~5.825GHz

**802.11b/g:** U.S., Europe and Japan product covering 2.4 to 2.484 GHz, programmable for different country regulations

#### Media Access Protocol

Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)

#### Modulation Technology

DBPSK @ 1Mbps  
DQPSK @2Mbps  
CCK @ 5.5 & 11Mbps  
BPSK @ 6 and 9 Mbps  
QPSK @ 12 and 18 Mbps  
16-QAM @ 24 and 36 Mbps  
64-QAM @ 48 and 54 Mbps

#### Operating Channels

11 for North America, 14 for Japan, 13 for Europe,

#### Receive Sensitivity (Typical)

- 5.15~5.85G(IEEE802.11a)  
6Mbps@ -88dBm;  
54Mbps@ -70dBm

- 2.412~2.472G(IEEE802.11g)  
6Mbps@ -91dBm;  
54Mbps@ -74dBm
- 2.412~2.472G(IEEE802.11b)  
11Mbps@ -90dBm  
1Mbps@ -95dBm

#### Available Transmit Power (Typical)

- 5.15~5.24 GHz(IEEE802.11a)  
17dBm @6 ~ 36Mbps  
16 dBm @48Mbps  
15 dBm @54Mbps
- 5.26~5.35GHz(IEEE802.11a)  
20dBm @6 ~ 24Mbps  
18dBm @36Mbps  
16 dBm @48Mbps  
15 dBm @54Mbps
- 5.745~5.85GHz (IEEE802.11a)  
18dBm @6 ~ 24Mbps  
16dBm @36Mbps  
14 dBm @48Mbps  
13 dBm @54Mbps
- 2.412~2.472G(IEEE802.11g)  
26dBm @6 ~ 24Mbps  
23dBm @36Mbps  
22 dBm @48Mbps  
21 dBm @54Mbps
- 2.412~2.472G(IEEE802.11b)  
Up to 26 dBm. @1, 2, 5.5 and 11Mbps

#### RF Connector

TNC Type (Female Reverse)

#### Networking

#### Topology

Ad-Hoc, Infrastructure

#### Operation Mode

Point-to-Point/Point-to-Multipoint  
Bridge/AP/Client Bridge/WDS

#### Interface

One 10/100Mbps RJ-45 LAN Port

#### Security

IEEE802.1x Authenticator/RADIUS Client (EAP-MD5/TLS/TTL) Support in AP Mode

WPA/WPA2 supplicant support in Client Bridge mode  
WPA2/WPA/Pre-share Key (PSK)/AES/TKIP  
MAC address filtering (AP mode)  
Hide SSID in beacons

#### IP Auto-Configuration

DHCP client/server

#### Management

#### Configuration

Web-based configuration (HTTP)  
Telnet Configuration  
SNMP V1

#### Firmware Upgrade

Upgrade firmware via web-browser

#### Environmental

#### Temperature Range

Operating: -10°C to 50°C (14°F to 132°F)  
Storage: -40°C to 70°C (40°F to 158°F)

#### Humidity

5%-95% Typical

#### Package Contents

One Client Bridge/AP

#### Related Product(s)

#### 11a/b/g High-power Wireless USB Adapter

NUB-362 (802.11b/g)  
NUB-862 (802.11a/b/g)  
UB-8310 (802.11a/b/g)

#### 11b High-power Client Bridge

2611CB3+(Deluxe)

#### 11b Outdoor AP-Client

2611CB5+

#### 11g Outdoor AP-Client

NOC-3220 Series  
NOC-3610 Series

#### 11g Indoor AP-Client

NCB-3220 Series

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