

Long Range Wireless Access Point / Client Bridge			EOC-2610
2.4GHz	54Mbps	802.11b/g	Multi-Function AP

EOC-2610 is a long range outdoor wireless Access Point and Client Bridge that operates seamlessly in the 2.4GHz frequency spectrum. It features high transmitted output power and high receivable sensitivity along with antenna diversity. High output power and high sensitivity can extend range and coverage to reduce the roaming between Access Points to get a more stable wireless connection. It also reduces the expense of equipment in the same environment.

It supports distance control by 1km to 30km; antenna diversity function and RSSI indicator which enables the best transmit and receive signals for traffic communication. This product comes with PoE injector for building in outdoor environment easily.

To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2. The MAC address filter lets you select exactly which stations should have access to your network. In addition, the User Isolation function can protect the private network between client users.

The attractive design, high performance, and array of features make EOC-2610 a suitable wireless solution for your residence or office.



### Package Content

- 1\* 802.11b/g Long range AP/CB (EOC-2610)
- 1\* PoE injector (EPE-1212)
- 1\* Power Adaptor
- 1\* CD-ROM with User's Manual
- 1\* QIG
- 1\* Metal strap
- 1\* Special screw set

\* Theoretical wireless signal rate based on IEEE standard of 802.11b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

\*\* All specifications are subject to change without notice.

## Features

### Wireless

- **2.4GHz** It works in 2.4GHz frequency spectrum
- **High output power** Transmit output power programmable for different country selections
- **High Data Rate** High speed physical transmitting rate up to 54Mbps with 11g, support large payload such as MPEG video streaming
- **Multifunction application** Access Point/Client Bridge
- **Long range transmitting** Transmit power control and distance control (ACK timeout)
- **Signal Strength** LED indicators have the best transmit and receive signal for traffic communication
- **Antenna Diversity** Two internal panel antennas and also could switch to external antenna for applications

### Networking

- **Public wireless solution** An AP interface that is especially useful in public areas such as hotspots and enterprise
- **Signal Strength Display** RF signal strength status shown LEDs of 3 colors, making network build-up easier
- **QoS(WMM)** Enhance performance and density ([Phase 2](#))
- **MSSID**

### Security

- **802.11i** WEP, WPA, WPA2 (Encryption support TKIP/AES)
- **802.1x** IEEE 802.1x Supplicant support in CB mode
- **MAC address functions** MAC address filter (AP mode)
- **L2 isolation**
- **Station isolation**

### Management

- **Firmware Upgrade** Upgrading firmware via web browser, setting are reserved after upgrade
- **Reset & Backup** Reset to factory default. User can export all setting into a file via WEB
- **MIB** MIB I, MIB II(RFC1213)
- **SNMP** V1, V2c

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## Technical Specifications

<b>Hardware Specification</b>	
MCU/RF	Atheros AR2315 Single chip
Memory	32MB SDRAM
Flash	8MB
Physical Interface	One 10/100 Fast Ethernet RJ-45 Reset Button One SMA Connector One switch (external and internal antenna switching)
LED indicators	Power/ Status LAN (10/100Mbps) WLAN (Wireless is up) 3* Link Quality (Client Bridge mode) <ul style="list-style-type: none"> <li>➤ Green: Good Quality</li> <li>➤ Yellow: Marginally Acceptable Quality</li> <li>➤ Red: Bad Quality</li> </ul>
Power Requirements	Active Ethernet (Power over Ethernet, IEEE802.3af) 12 V DC/1A Proprietary PoE design
Regulation Certifications	FCC Part 15/UL, ETSI 300/328/CE

<b>RF Specification</b>			
Frequency Band	<b>802.11b/g</b> 2.412~2.472GHz		
Modulation Technology	OFDM = BPSK, QPSK, 16-QAM, 64-QAM DSSS = DBPSK, DQPSK, CCK		
Operating Channels	<b>802.11b/g</b> 11 for North America, 14 for Japan, 13 for Europe		
Receive Sensitivity (Typical)	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><b>802.11g</b> -92 dBm @ 6Mbps, -74 dBm @ 54Mbps</td> <td style="width: 50%; border: none;"><b>802.11b</b> -97 dBm @ 1Mbps -89 dBm @ 11Mbps</td> </tr> </table>	<b>802.11g</b> -92 dBm @ 6Mbps, -74 dBm @ 54Mbps	<b>802.11b</b> -97 dBm @ 1Mbps -89 dBm @ 11Mbps
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Available transmit power (Average power)	FCC		ETSI	
	Frequency	Power	Frequency	Power
	2.412~2.462 GHz IEEE802.11g	26dBm@6~24Mbps 25dBm@36Mbps 23dBm@48Mbps 22dBm@54Mbps	2.412~2.472 GHz IEEE802.11g	26dBm@6~24Mbps 25dBm@36Mbps 23dBm@48Mbps 22dBm@54Mbps
	2.412~2.462 GHz IEEE802.11b	27dBm@1~11Mbps	2.412~2.472 GHz IEEE802.11b	27dBm@1~11Mbps
	Tolerance	+/-1 dBm	Tolerance	+/- 1 dBm
Internal Antenna	Embedded 10dBi Panel antenna (Antenna diversity)			
External Antenna	1* SMA connector			

Software Features	
General	
Topology	Infrastructure
Protocol / Standard	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11b/g (2.4GHz WLAN)
Operation Mode	<b>802.11 11b/g</b> Access Point Client Bridge
LAN	DHCP Client
Wireless	Channel Selection (Setting varies by countries) Transmission Rate 11 b/g : 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps Long distance transmission : 1km to 30km Transmit power table Signal Strength indication using LEDs
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/supplicant Hide SSID in beacons 802.1Q VLAN

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	L2 isolation(AP mode) Wireless STA (Client) connected list Multiple SSID
QoS	WMM (Phase 2)
Management	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> <li>• Upgrade firmware via web-browser</li> <li>• Keep latest setting when f/w update</li> </ul>
Administrator Setting	<ul style="list-style-type: none"> <li>• Administrator password change</li> </ul>
Reset Setting	<ul style="list-style-type: none"> <li>• Reboot (Press 1 second)</li> <li>• Reset to Factory Default (Press 5 seconds)</li> </ul>
System monitoring	Status, Event Log
SNMP	V1, V2c (Phase 2)
MIB	MIB I, MIB II (RFC1213) and Private MIB (Phase 2)
Backup & Restore	Settings through Web
Time setting	NTP (Auto-setting of time) Time setting manually

## Environment & Mechanical

Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%~90% typical
Dimensions	260mm (L) x 84mm (W) x 55mm (H)
Weight	300g

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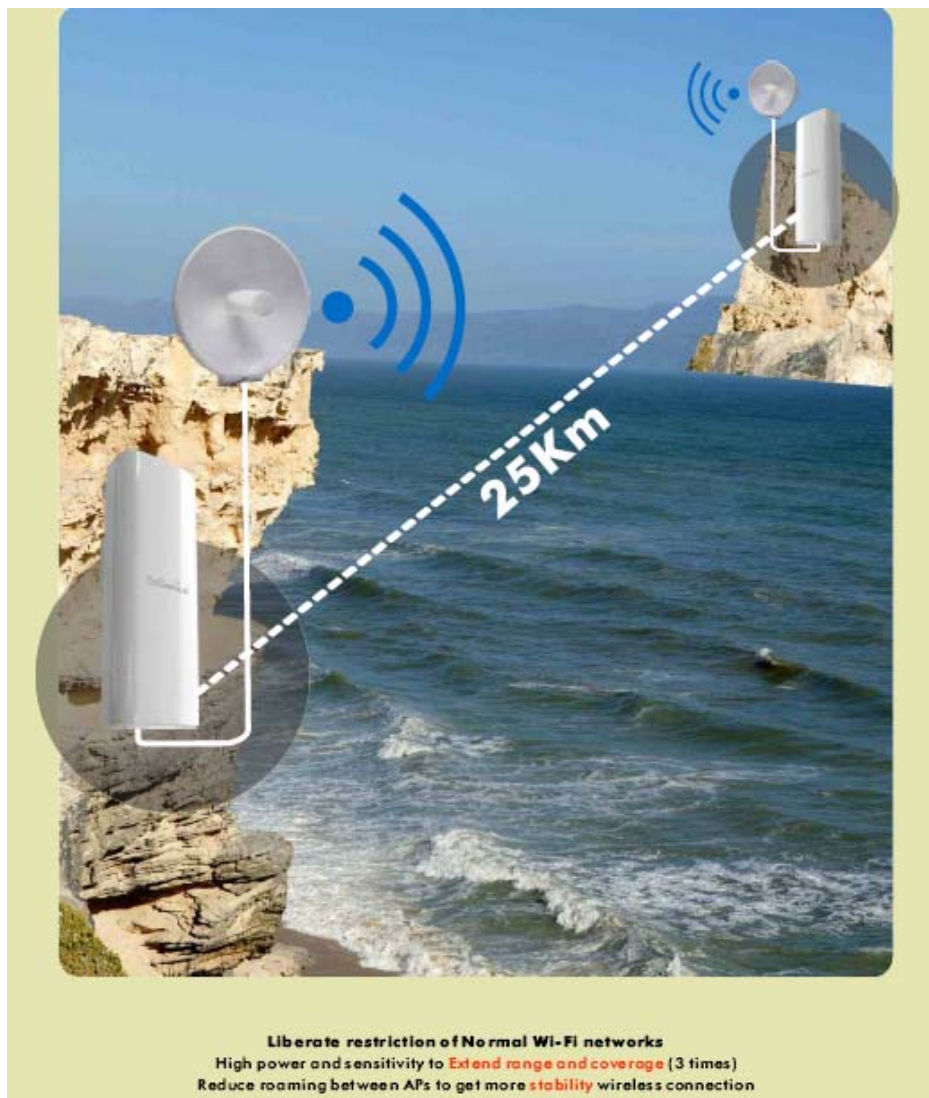
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## Application

Access Point + Client Bridge scenario



Long Range Transmitting



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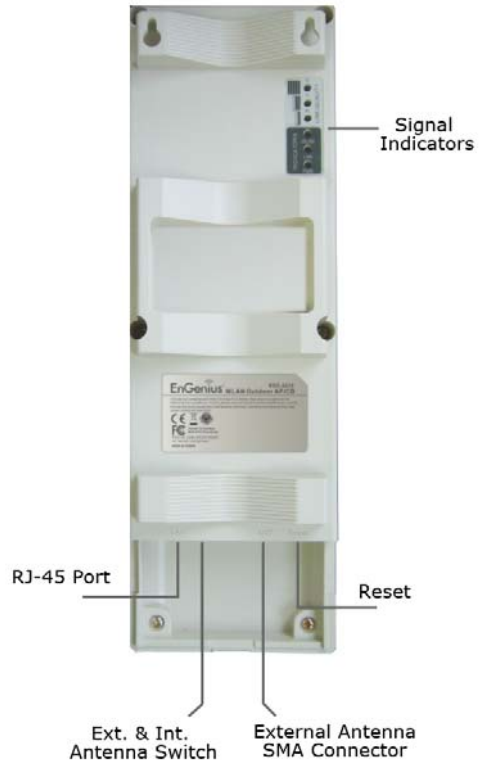
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**Product ID & Mounting Base**

**Front**



**Rear**



**Standard Mounting Kits**

**Pole mount**



**Optional mounting kits**

**Wall mount**



**Window mount**



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