

EOC-2610			
Long Range Wireless Access Point / Client Bridge			
2.4 GHz	108Mbps	802.11 b/g/Super G	MSSID, WDS

EOC-2610 is a long range outdoor wireless **Access Point/ Client Bridge/WDS AP / WDS Bridge / Client Router** that operates seamlessly in the 2.4GHz frequency spectrum and provides high bandwidth up to **108Mbps with Super G**. It features high transmitted output power and high receivable sensitivity. 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 up to 30km 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.

With **MSSID** and **VLAN** support, it allows networks administrator to segregate different services or applications to different designated users, making it more scalable.

**To facilitate ease of use and maintenance, a LOCATOR utility is provided to remotely assign IP and to hard reset the device or devices to factory default. To download, please go to:**

[http://www.engeniustech.com.sg/products\\_details.php?ID=164&CatName=Business&SubCatName=Indoor+Wireless+Devices](http://www.engeniustech.com.sg/products_details.php?ID=164&CatName=Business&SubCatName=Indoor+Wireless+Devices)



#### Package Content

- 1\* 802.11b/g Long range AP/CB (EOC-2610)
- 1\* PoE Injector (EPE-1212)
- 1\* Power Adaptor
- 1\* CD 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.

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### Features

#### Wireless

- **2.4GHz** It works in 2.4GHz frequency spectrum
- **High output power** Transmit high output power programmable for different country selections
- **High Data Rate** High speed transmitting rate up to 108Mbps with Super G, support large payload such as MPEG video streaming
- **Multifunction application** Access Point/Client Bridge/Client Router/WDS Function
- **Long range transmitting** Transmit power control and distance control (ACK timeout)
- **Narrow Bandwidth** Provide 5MHz/10MHz/20MHz bandwidth selection
- **Signal Strength Display** RF signal strength status shown LEDs of 3 colors, making network build-up easier. LED indicators have the best transmit and receive signal for traffic communication
- **Multiple SSID** 4 SSID supported. Each SSID can set itself wireless or WAN access setting.
- **QoS(WMM)** Enhance performance and density

#### Networking

- **PPPoE** Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
- **PPTP** Point-to-Point Tunneling Protocol (PPTP) is a method for implementing virtual private networks
- **VPN Pass Through**

#### Security

- **802.11i** WEP, WPA, WPA2 (Encryption support TKIP/AES)
- **MAC address functions** MAC address filter (AP mode)
- **802.1x** IEEE802.1x Authenticator
- **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
- **Ping & Trace Route** Built-in PING function & Trace Route function in Web GUI
- **MIB** MIB I, MIB II(RFC1213)
- **SNMP** V1, V2c

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### Technical Specifications

Hardware Specification	
Physical Interface	One 10/100 Fast Ethernet RJ-45 One Reset Button One SMA Connector One switch (external and internal antenna switching)
LED indicators	Power/ Status LAN (10/100Mbps) WLAN (Wireless is up) 3 x 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) Proprietary PoE design Power Adapter 24V / 0.6A DC
Regulation Certifications	FCC Part 15C/15B, EN 300 328, EN 301 489-1/-17, EN60950

RF Specification																							
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 border="1"> <tr> <td><b>802.11g</b></td> <td><b>802.11b</b></td> </tr> <tr> <td>-92 dBm @ 6Mbps</td> <td>-97 dBm @ 1Mbps</td> </tr> <tr> <td>-74 dBm @ 54Mbps</td> <td>-89 dBm @ 11Mbps</td> </tr> </table>	<b>802.11g</b>	<b>802.11b</b>	-92 dBm @ 6Mbps	-97 dBm @ 1Mbps	-74 dBm @ 54Mbps	-89 dBm @ 11Mbps																
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	IEEE802.11b	IEEE802.11b
<b>Internal Antenna</b>	<b>Antenna Specification</b>	
	<b>Gain</b>	<b>10dBi</b>
	<b>Radiation</b>	<b>Directional</b>
	<b>Frequency Band Range</b>	<b>2.4-2.5GHz</b>
	<b>Horizontal -3dB Bandwidth</b>	<b>70°</b>
	<b>Vertical -3dB Bandwidth</b>	<b>35°</b>
<b>Internal Antenna Pattern</b>		
<b>External Antenna</b>	<b>1* SMA connector</b>	

Software Features	
<b>General</b>	
<b>Topology</b>	Infrastructure
<b>Protocol / Standard</b>	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11b/g (2.4GHz WLAN)
<b>Operation Mode</b>	<b>802.11 b/g</b> Access Point Client Bridge Client Router WDS AP/CB
<b>LAN</b>	DHCP Server DHCP Client
<b>VPN</b>	VPN – pass through

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<b>Wireless</b>	Channel Selection (Setting varies by countries) Transmission Rate 11 b/g : 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps Super G : 108 Mbps Long distance transmission : 1km to 30km Transmit power table Signal Strength indication using LEDs PPPoE(CR mode) and PPTP Narrow Bandwidth 5MHz/10MHz/20MHz Support PING function and Trace Route function MSSID Support VLAN Support
<b>Security</b>	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 MAC address filtering, up to 50 field Wireless STA (Client) connected list
<b>QoS</b>	WMM
<b>Management</b>	
<b>Configuration</b>	Web-based configuration (HTTP)
<b>Firmware Upgrade</b>	- Upgrade firmware via web-browser - Keep latest setting when f/w update
<b>Administrator Setting</b>	Administrator password change
<b>Reset Setting</b>	- Reboot (Press 1 second) - Reset to Factory Default (Press 5 seconds)
<b>System monitoring</b>	Status, Event Log
<b>SNMP</b>	V1, V2c
<b>MIB</b>	MIB I, MIB II (RFC1213) and Private MIB
<b>Backup &amp; Restore</b>	Settings through Web
<b>Time setting</b>	NTP (Auto-setting of time) Time setting manually

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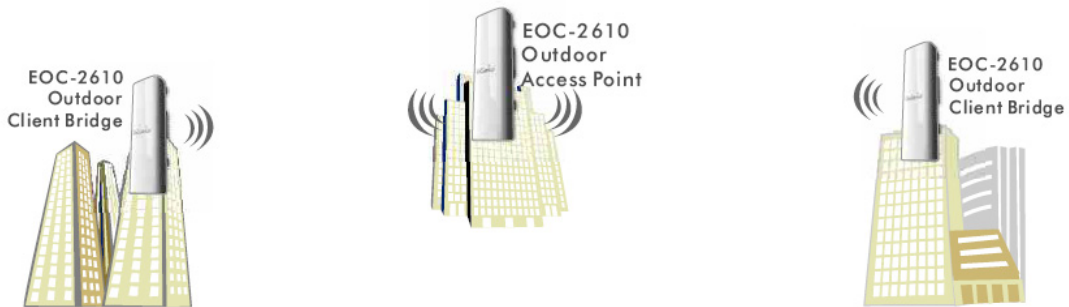
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## Environment & Mechanical

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

## Application

Access Point + Client Bridge scenario



Long Range Transmitting



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**Product ID & Mounting Base**

**Front**



**Rear**



**Standard Mounting Kits**

**Pole mount**



**Optional mounting kits**

**Wall mount**



**Window mount**



V2.5

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