

# EOC-1650

Access Point/ Client Bridge/WDS AP /  
WDS Bridge / Client

- 2.4 GHz
- 54Mbps
- 802.11b/g
- Superior Performance



## Package Content

- 1 x 802.11b/g Long range AP/CB (EOC1650)
- 1 x PoE Injector (EPE-1212) with 24V/0.6A Power Adapter
- 1 x CD with User's Manual
- 1 x QIG
- 1 x Metal strap
- 1 x Special screw set
- 1 x 5dBi SMA Antenna

To facilitate ease of use and maintenance, a LOCATOR utility is provided to remotely assign IP and to reset the device or devices to factory default. To download, [click here](#).

**EOC1650** is a revolutionary product consists of conciseness, quality, and flexibility. It comes with 7dBi internal antenna and upgradable SMA interface provides a customizable interface for enhanced network coverage. Attached suction cup allows quick installation on window or smooth surface.

Operation mode provides **Access Point/ Client Bridge/WDS AP / WDS Bridge / Client Router** and high bandwidth up to 54Mbps. It features high transmitted output power and high receivable sensitivity. High output power and high sensitivity extends range and coverage to reduce the roaming between Access Points to ensure a stable wireless connection and reduce the expense of equipment.

It supports distance control range up to 20km and RSSI indicator which enables the best transmitted and received signals for traffic communication. User can choose a suitable antenna for flexible application. This product comes with PoE injector for building in outdoor environment easily.

To protect wireless connectivity, EOC1650 encrypt 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.

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

The attractive design, high performance, and array of features make EOC1650 an optimal wireless solution choice for your residence and office.

## 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 54Mbps, 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

Technical Specifications																					
<b>&gt; Hardware Specification</b>																					
Physical Interface	One 10/100 Fast Ethernet RJ-45 One Reset Button One Antenna Switch One SMA Connector																				
LED indicators	1 x Power/ Status 1 x LAN (10/100Mbps) 1 x 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																				
<b>&gt; 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 border="1"> <thead> <tr> <th><b>802.11g</b></th> <th><b>802.11b</b></th> </tr> </thead> <tbody> <tr> <td>-92 dBm @ 6Mbps</td> <td>-97 dBm @ 1Mbps</td> </tr> <tr> <td>-74 dBm @ 54Mbps</td> <td>-89 dBm @ 11Mbps</td> </tr> </tbody> </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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Internal Antenna	Antenna Specification	
	Gain	7dBi
	Radiation	Directional
	Frequency Band Range	2.4-2.5GHz
	Horizontal -3dB Bandwidth	100°
	Vertical -3dB Bandwidth	45°
Internal Antenna Pattern		
External Antenna	1 x 5dBi SMA Omni Antenna	
<b>&gt; Software Features</b>		
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 b/g</b> Access Point Client Bridge Client Router WDS AP/Bridge	
LAN	DHCP Server DHCP Client	
VPN	VPN Pass through	
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 Mbps Long distance transmission : 1km to 30km	

	<p>Transmit power table</p> <p>Signal Strength indication using LEDs</p> <p>PPPoE(CR mode) and PPTP</p> <p>Narrow Bandwidth 5MHz/10MHz/20MHz Support</p> <p>PING function and Trace Route function</p> <p>MSSID Support</p> <p>VLAN Support</p>
Security	<p>WEP Encryption-64/128/152 bit</p> <p>WPA/WPA2 Personal (WPA-PSK using TKIP or AES)</p> <p>WPA/WPA2 Enterprise (WPA-EAP using TKIP)</p> <p>802.1x Authenticator</p> <p>Hide SSID in beacons</p> <p>MAC address filtering, up to 50 field</p> <p>Wireless STA (Client) connected list</p>
QoS	WMM
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	Administrator password change
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
MIB	MIB I, MIB II (RFC1213)
Backup & Restore	Settings through Web
Time setting	<p>NTP (Auto-setting of time)</p> <p>Time setting manually</p>
<b>Environment &amp; Mechanical</b>	
Temperature Range	<p>Operating -20°C~70°C</p> <p>Storage -30°C to 80°C</p>
Humidity (non-condensing)	0% ~ 95% typical
Dimensions	192mm (L) x 48mm (W) x 36.2mm (H)
Weight	250g

**Product ID & Mounting Base**



**FRONT**



**BACK**

