

# EOC1650

Wireless Access Point / Client Bridge / Client Router

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



## PRODUCT DESCRIPTION

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 /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 ranges from 1km to 30km 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.

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 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
- **Long range transmitting** Transmit power control and distance control (ACK timeout)
- **Signal Strength Display** LED indicators have the best transmit and receive signal for traffic communication. RF signal strength status shown LEDs of 3 colors, making network build-up easier
- **Public wireless solution** An AP interface that is especially useful in public areas such as hotspots and enterprise
- **QoS(WMM)** Enhance performance and density
- **BSSID** Basic Service Set ID

### Networking

- **PPPoE** Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
- **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**

## TECHNICAL SPECIFICATION

### > Hardware Specification

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

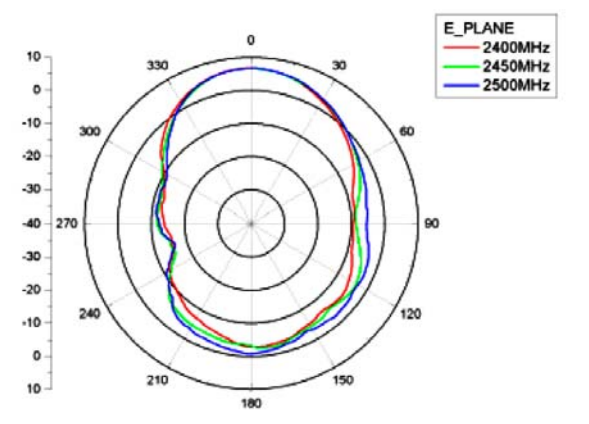
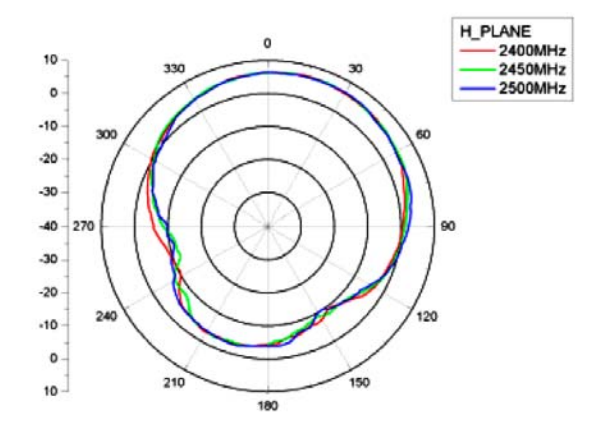
EOC1650 Datasheet Version 10112010

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

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

BUSINESS CLASS

EOC5611P

Operating Channels	<b>802.11b/g</b> 11 for North America, 14 for Japan, 13 for Europe		
Receive Sensitivity (Typical)	<b>802.11a</b> -92dBm @ 6Mbps, -73dBm @ 54Mbps	<b>802.11g</b> -92 dBm @ 6Mbps -75 dBm @ 54Mbps	<b>802.11b</b> -97 dBm @ 1Mbps -91 dBm @ 11Mbps
Available transmit power (Average power)	FCC		ETSI
	Frequency	Power	Frequency
	2.412~2.462 GHz IEEE802.11g	23dBm@6~24Mbps 21dBm@36Mbps 19dBm@48Mbps 18dBm@54Mbps	2.412~2.472 GHz IEEE802.11g 23dBm@6~24Mbps 21dBm@36Mbps 19dBm@48Mbps 18dBm@54Mbps
	2.412~2.462 GHz IEEE802.11b	24dBm@1~11Mbps	2.412~2.472 GHz IEEE802.11b 24dBm@1~11Mbps
Internal Antenna	Antenna Specification		
	Gain	7dBi	
	Radiation	Directional	
	Frequency Band Range	2.4-2.5GHz	
	Horizontal -3dB Bandwidth	100°	
	Vertical -3dB Bandwidth	45°	
<b>&gt; Antenna Radiation Pattern</b>			
 <p>E_PLANE — 2400MHz — 2450MHz — 2500MHz</p>		 <p>H_PLANE — 2400MHz — 2450MHz — 2500MHz</p>	
External Antenna	1 x 5dBi SMA Omni Antenna		

### SOFTWARE FEATURES

<b>&gt; General</b>	
Topology	Infrastructure
Protocol / Standard	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11b/g (2.4GHz WLAN)

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Operation Mode	<b>802.11 b/g</b> Access Point Client Bridge Client Router
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 Transmit power table Signal Strength indication using LEDs (3 colors) PPPoE (CR mode)
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 Hide SSID in beacons MAC address filtering, up to 50 field Wireless STA (Client) connected list
QoS	WMM
<b>&gt; Management</b>	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	- Upgrade firmware via web-browser - Keep latest setting when f/w update
Administrator Setting	Administrator password change
Reset Setting	- Reboot (Press 1 second) - Reset to Factory Default (Press 5 seconds)
System monitoring	Status, Event Log
SNMP	V1, V2c
MIB	MIB I, MIB II (RFC1213)
Backup & Restore	Settings through Web
Time setting	NTP (Auto-setting of time) Time setting manually

#### ENVIRONMENT AND MECHANICAL

Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0% ~ 95% typical
Dimensions	192mm (L) x 48mm (W) x 36.2mm (H)
Weight	250g

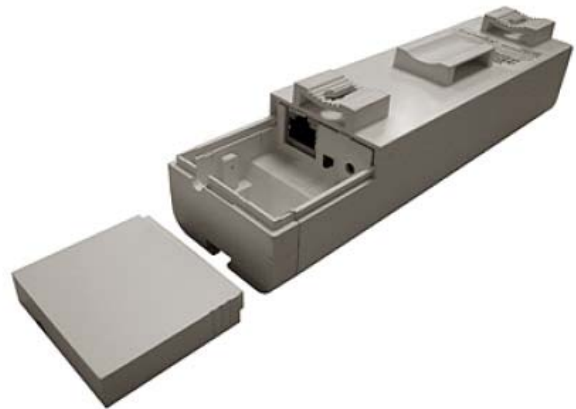
Product ID & Mounting Base



FRONT



BACK



**PACKAGE CONTENT**

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