

Wireless Access Point / Client Bridge / Client Router			EOC1650
2.4GHz	54Mbps	802.11b/g	Superior Performance

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.



Package Content

- 1 x 802.11b/g Long range AP/CB (EOC1650)
- 1 x PoE Injector (EPE-1212) with 24V/0.6 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

* 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 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** LED indicators have the best transmit and receive signal for traffic communication

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
- **PPPoE** Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
- **BSSID** Basic Service Set ID, supports 4 MAC address

Security

- **802.11i** WEP, WPA, WPA2 (Encryption support TKIP/AES)
- **MAC address functions** MAC address filter (AP mode)
- **802.1x** IEEE802.1x Authenticator
- **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

Hardware Specification	
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
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"> • Green: Good Quality • Yellow: Marginally Acceptable Quality • Red: Bad Quality
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

RF Specification																	
Frequency Band	802.11b/g 2.412~2.472GHz																
Modulation Technology	OFDM = BPSK, QPSK, 16-QAM, 64-QAM DSSS = DBPSK, DQPSK, CCK																
Operating Channels	802.11b/g 11 for North America, 14 for Japan, 13 for Europe																
Receive Sensitivity (Typical)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">802.11g -92 dBm @ 6Mbps -74 dBm @ 54Mbps</td> <td style="width: 50%;">802.11b -97 dBm @ 1Mbps -89 dBm @ 11Mbps</td> </tr> </table>	802.11g -92 dBm @ 6Mbps -74 dBm @ 54Mbps	802.11b -97 dBm @ 1Mbps -89 dBm @ 11Mbps														
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	Tolerance	±1 dBm	Tolerance	±1 dBm
Internal Antenna	1 x 7dBi Internal Panel Antenna			
External Antenna	1 x 5dBi SMA Antenna			

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	802.11 b/g 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 L2 isolation(AP mode) Wireless STA (Client) connected list
QoS	WMM
Management	
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

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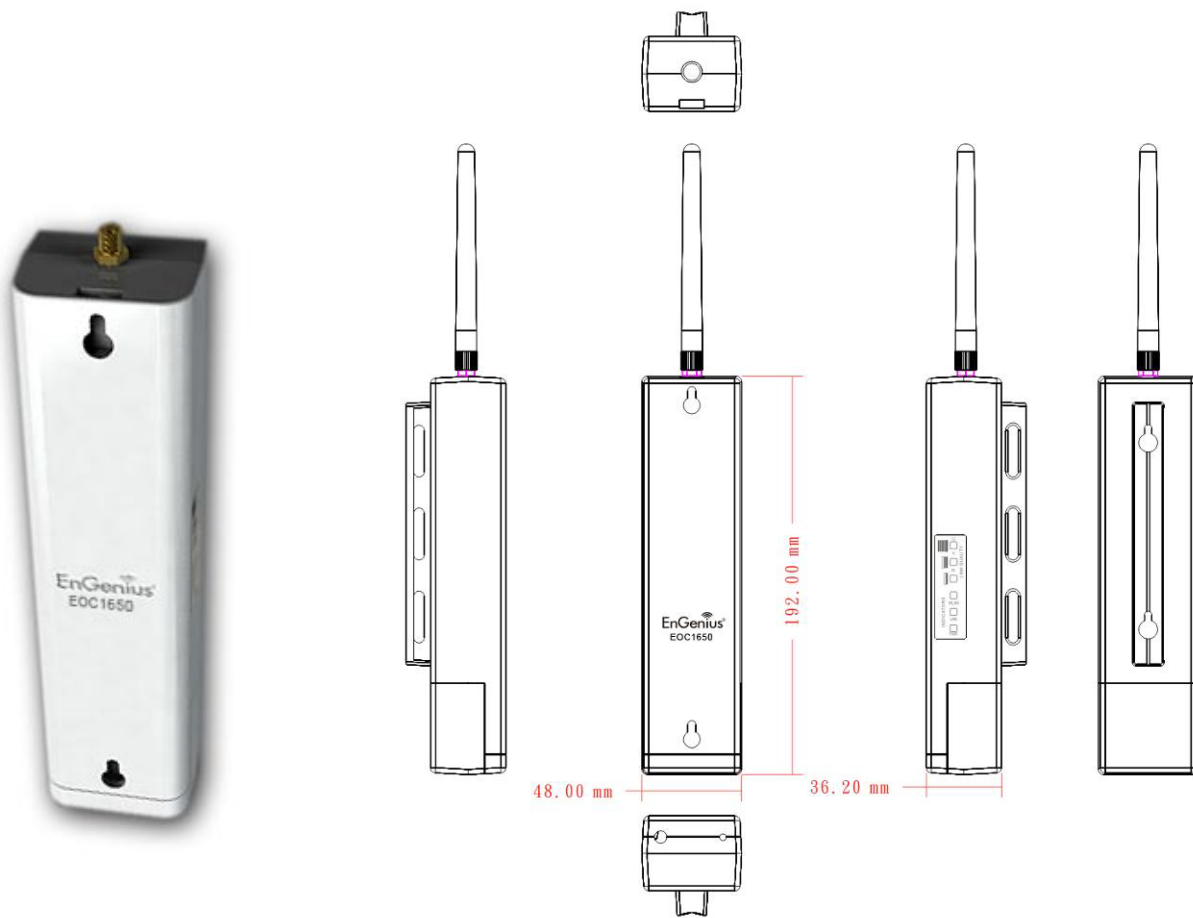
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SNMP	V1, V2c
MIB	MIB I, MIB II (RFC1213)
Backup & Restore	Settings through Web
Time setting	NTP (Auto-setting of time) Time setting manually

Environment & Mechanical

Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%~90% typical
Dimensions	192mm (L) x 48mm (W) x 36.2mm (H)
Weight	250g

Product ID & Mounting Base



V1.0

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