EnGenius® | DATASHEET

Long Range Wireless Access Point / Client Bridge			EOC2611P
2.4GHz	108Mbps	802.11b/g/Super G	MSSID, WDS

EOC2611P is a long range outdoor wireless Access Point / Client Bridge that operates seamlessly in the 2.4GHz frequency spectrum and provides high bandwidth up to 108Mbps with Super G. With dual polarization antenna, 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. With IPx4 protection, it can provide effective in keeping out water.

It supports distance control by 1km 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 EOC2611P a suitable wireless solution for your residence or office.

Package Content
➢ 1* 802.11b/g Long range AP/CB (EOC2611P)
➢ 1* PoE Injector (EPE-1212)
➢ 1* Power Adaptor
➢ 1* CD with User's Manual
➢ 1* QIG
➢ 1* Metal strap
➢ 1* Special screw set

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**   L2 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) and Private MIB
- **SNMP**   V1, V2c

Technical Specifications

Hardware Specification	
MCU/RF	Atheros AR2316 Single Chip
Memory	32MB SDRAM
Flash	8MB
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) • 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, EN60950

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)	**802.11g** -92 dBm @ 6Mbps -74 dBm @ 54Mbp	**802.11b** -97 dBm @ 1Mbps -89 dBm @ 11Mbps	

Available transmit power (Average power)	FCC		ETSI	
	Frequency	Power	Frequency	Power
	2.412~2.462 GHz IEEE802.11g	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 23dBm@54Mbps	2.412~2.472 GHz IEEE802.11g	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 23dBm@54Mbps
	2.412~2.462 GHz	28dBm@1~11Mbps	2.412~2.472 GHz	28dBm@1~11Mbps

* 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.   1/18/2010

	IEEE802.11b		IEEE802.11b	
Internal Antenna	**Antenna Specification**			
	Gain		**10dBi**	
	Radiation		**Directional**	
	Frequency Band Range		**2.4-2.5GHz**	
	Horizontal -3dB Bandwidth		**70°**	
	Vertical -3dB Bandwidth		**35°**	

Internal Antenna Pattern

E_PLANE
- 2400MHz
- 2450MHz
- 2500MHz

H_PLANE
- 2400MHz
- 2450MHz
- 2500MHz

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	**802.11 b/g**
	Access Point
	Client Bridge
	Client Router
	WDS AP/CB
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
	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
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
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
SNMP	V1, V2c
MIB	MIB I, MIB II (RFC1213) and Private MIB
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	380g