

# EOC5510

Wireless 802.11a AP/CB

- 5.0GHz
- 54Mbps • 802.11a
- 24PoE



# PRODUCT DESCRIPTION

EOC5510 is a long range outdoor wireless Access Point / Client Bridge that operates in 5GHz frequency. It provides high bandwidth up to 54Mbps and features high transmitted output power as well as superior sensitivity. EOC5510 extends radio coverage, avoids unnecessary roaming between Access Points and ensures a stable wireless connection while reduces the number of required equipments.

EOC5510 provides user friendly interface including user friendly distance control ranges from 1KM up to 30KM and RSSI LED indicator offering real time signal status. It comes with PoE injector for convenient outdoor installation.

EOC5510 enforces transmission security with full support of latest encryption mechanism including 64/128-bit WEP, WPA and WPA2. With 8dBi internal antenna which supports dual polarization and superior performance, EOC5510 makes an optimal wireless solution for both small and large scale projects.

EOC5510 Datasheet Version 101110

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

**BUSINESS CLASS** EOC5510



# **FEATURES**

#### Wireless

- **5GHz** It works in 5GHz frequency spectrum
- High output power Transmit output power programmable for different country selections
- High Data Rate High speed transmitting rate up to 54Mbps, supports large payload such as MEPG video streaming
- Multifunction application Access Point/Client Bridge/Client Router/WDS AP/WDS Bridge
- 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. And 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

#### 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
- MIB MIB I, MIB II(RFC1213)
- SNMP V1, V2c





	TECHNICAL SPECIFICATION					
> Hardware Specification						
MCU/RF	Atheros AR2313+AR5112					
Memory	32MB SDRAM					
Flash	8MB					
Physical Interface	1 x 10/100 Fast Ethernet RJ-45					
-	1 x Reset Button					
	1 x Antenna Switch (Internal and External Switch)					
	1 x SMA Connector					
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 15E, EN301 893, EN 301 489-1/-17, EN60950, IC Certification					
> RF Specification						
Frequency Band	<b>802.11a =</b> 5.150~5.350GHz, 5.470~5.725GHz, 5.725~5.825GHz					
Modulation Technology	OFDM = BPSK, QPSK, 16-QAM, 64-QAM					
Operating Channels	802.11a = See the Table1					
Receive Sensitivity (Typical)	802.11a -92dBm @ 6Mbps, -73dBm @ 54Mbps					
	FCC ETSI					
Available transmit power (Average power)	Frequency Power Frequency Power  5.150~5.350 GHz IEEE802.11a  Power Frequency Power  5.150~5.350 23dBm@6~24Mbps 23dBm@36Mbps GHz GHz 1EEE802.11a  23dBm@36Mbps 22dBm@48Mbps 20dBm@54Mbps 20dBm@54Mbps 20dBm@54Mbps					
	5.470~5.725					
	5.725~5.825					

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Internal Antenna	Antenna Specification		
(Dual Polarization)	Gain		8dBi
	Radiation		Directional
	Frequency Band Range		5.1-5.8GHz
	Horizontal -3dB Bandwi	dth	Azimuth: 92°, Elevation: 27°
	Vertical -3dB Bandwidtl	1	Azimuth: 58°, Elevation: 23°
> Antenna Radiation Pattern		<b>r</b>	
Horizontal Azimuth		Horizontal Eleva	vation
4.9GHz 5.15GHz 5.35GHz 5.5GHz	5.75GHz 5.825GHz	4.9GHz 5	5.15GHz 5.35GHz 5.5GHz 5.75GHz 5.825GHz
255 240 255 240 255 210 195 165	75 10 0 0 0 0 105	285 270 255 240	315 30 315 30 315 30 30 30 30 30 30 30 30 30 30 30 30 30
Vertical Azimuth		Vertical Elevation	ion
4.9GHz 5.15GHz 5.35GHz 5.5GHz	5.75GHz 5.825GHz	4.9GHz	5.15GHz 5.35GHz 5.5GHz 5.75GHz 5.825GHz
3330 345 0 15 300 285 270 255 240 225 210 195 180 165	30 45 60 75 105 120 135	285 270 255	345 0 15 30 45 60 60 105 120 120 125 125 135 150 150 150 150 150 150 150 150 150 15
External Antenna		1 x SMA conne	ector

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SOFTWARE FEATURES				
> General				
Topology	Infrastructure			
Protocol / Standard	IEEE 802.3 (Ethernet)			
	IEEE 802.3u (Fast Ethernet)			
	IEEE 802.11a(2.4GHz WLAN)			
Operation Mode	802.11 a			
.,	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 a : 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps			
	Long distance transmission : 1km to 30km			
	Transmit power table			
	Antenna Diversity with Dual Polarization			
	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			
	Preferred SSID			
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			
0.0				
QoS	WMM			
> Management	W. I. J. C. C. (UTTD)			
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	260mm (L) x 84mm (W) x 55mm (H)	
Weight	270g	

PACKAGE CONTENT
► 1 x EOC5510
► 1 x PoE Injector (EPE-1212)
► 1 x Power Adaptor
► 1 x CD with User's Manual
▶ 1 x QIG
► 1 x Metal strap
▶ 2 x Special screw set