

Dual Radio Concurrent AP/CB			<i>EOA7530</i>
2.4GHz / 5GHz	54Mbps	802.11a/b/g	Flexible Application

EOA7530 equips with two powerful independent RF interfaces which support 802.11a and 802.11b/g. With certified IP-65 protection, it is designed to deliver high reliability under harsh outdoor environment.

Built-in advanced multi-functions provide flexibility in constructing scalable WiFi networks for all possible applications. With two individual interfaces, each can be configured into 3 different modes with maximum of 5 combinations. EOA7530 offers bandwidth up to 54Mbps to accommodate heavy traffic services such as multimedia streaming. Establishing backbone network using 802.11a ensures stability and reduces interference while 802.11b/g offers great compatibility to all wireless clients.

EOA7530 provides wide-range of authentication and encryption standards (including WEP, WPA, WPA2, TKIP/AES and IEEE 802.1X) to enforce maximum security. Furthermore, friendly security management user interface reduces configuration complexity. EOA7530 is a true carrier-grade product which is guaranteed to fulfill any business proposals.



### Package Content

- 1 x Dual Radio Concurrent AP (EOA7530)
- 1 x PoE injector with Power Adapter(48V)
- 1 x Mounting kit
- 1 x Grounding Cable
- 1 x CD with User's Manual
- 1 x QIG
- 2 x N-type Dual Band Omni Antenna

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

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## Features

### Wireless

- **Dual Radio** Two radio ( a, radio1 and b/g, radio2 ) for independent application
- **High Data Rate** High speed physical transmitting rate up to 54Mbps, support large payload such as MPEG video streaming
- **Multifunction application** 8 Modes (AP-AP, AP-CB, AP-CR, CB-AP, CR-AP, AP Concurrent, CB Concurrent, CR Concurrent)
- **Signal Strength Display** Show the signal condition for more convenient installation and setup.
- **QoS(WMM)** Enhance performance and density
- **BSSID** Basic Service Set ID
- **Multiple SSID** 4 BSSID supported. Primary (1<sup>st</sup>) BSSID for normal setting follow this router's main default setting for security setting. Each SSID can set itself wireless or WAN access setting.

### Networking

- **PPPoE** Point-to-Point Protocol over Ethernet at Client Router mode. This function will keep trying when failed or disconnected
- **PPTP** The **Point-to-Point Tunneling Protocol (PPTP)** is a method for implementing virtual private networks
- **VPN Pass Through**

### Security

- **802.11i** WEP, WPA-PSK(TKIP or AES), WPA2
- **802.1x** 802.1x Authenticator, EAP-TLS/TTLS
- **MAC address functions** MAC address access control list, MAC address filter
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### 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
- **Telnet** teletype network provides a bidirectional interactive communications facility to easy user to communicate with network device.
- **MIB** MIB I, MIB II(RFC1213) and private MIB
- **SNMP** V1, V2c

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## Technical Specifications

Hardware Specification	
MCU	Atheros AR7161
RF	Atheros AR5413 (Radio1) + Atheros AR5413 (Radio2)
Memory	64MB DDR RAM
Flash	8MB
Physical Interface	1 x RJ-45 : 10/100 Fast Ethernet 1 x Reset Button
Power Requirements	Power over Ethernet, 48V DC
Regulation Certifications	FCC Part 15C/15B/15E, EN301 893, EN 300 328, EN 301 489-1/-17, EN60950

RF Specification			
Frequency Band	<b>802.11a</b> 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz  <b>802.11b/g</b> U.S., Europe and Japan product covering 2.400 to 2.484 GHz, programmable for different country regulations		
Modulation Technology	OFDM = BPSK, QPSK, 16-QAM, 64-QAM DSSS = DBPSK, DQPSK, CCK		
Operating Channels	<b>802.11a</b> US/Canada:12 non-overlapping channel (5.15~5.35GHz, 5.725~5.825GHz) Europe:19 non-overlapping channel (5.15~5.35GHz, 5.47~5.825GHz) Japan:4 non-overlapping channel (5.15~5.25GHz) China:5 non-overlapping channel (5.725~5.85GHz)  <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> -94 dBm @ 6Mbps, -74 dBm @ 54Mbp	<b>802.11b</b> -97 dBm @ 1Mbps -92 dBm @ 11Mbps

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Available transmit power	<b>Radio 1 (WLAN1)</b>			
	FCC		ETSI	
	Frequency	Power	Frequency	Power
	5.150~5.350 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.150~5.350 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps
	5.470~5.725 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.470~5.725 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps
	5.725~5.825 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.725~5.825 GHz IEEE802.11a	28dBm@6~24Mbps 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps
	<b>Radio 2 (WLAN2)</b>			
	FCC		ETSI	
	Frequency	Power	Frequency	Power
	2.412~2.462 GHz IEEE802.11g	28dBm@6~24Mbps 26dBm@36Mbps 25dBm@48Mbps 24dBm@54Mbps	2.412~2.472 GHz IEEE802.11g	28dBm@6~9Mbps 26dBm@12~18Mbps 25dBm@24~36Mbps 24dBm@48~54Mbps
2.412~2.462 GHz IEEE802.11b	29dBm@1~11Mbps	2.412~2.472 GHz IEEE802.11b	29dBm@1~11Mbps	
Antenna	2 x N-Type Connector for 802.11a & 802.11b/g			

Software Features	
<b>General</b>	
Topology	Infrastructure
Protocol / Standard	IEEE 802.3 (Ethernet) IEEE 802.3u (Fast Ethernet) IEEE 802.11a (5GHz WLAN) IEEE 802.11b/g (2.4GHz WLAN)
Operation Mode	Access Point ( Radio1 ) – Access Point ( Radio2 ) Access Point ( Radio1 ) – Client Bridge ( Radio2 ) Client Bridge ( Radio1 ) – Access Point ( Radio2 ) Access Point ( Radio1 )– Client Router ( Radio2 ) Client Router ( Radio1 ) – Access Point ( Radio2 ) AP Concurrent CB Concurrent CR Concurrent
LAN	DHCP Server(AP mode) DHCP Client(CR mode)

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Wireless	Auto Channel Selection (Setting varies by Regular Domains) Transmission Rate - 11 a/g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps - 11b : 11, 5.5, 2, 1 Mbps Distance Control (802.1x Ack timeout) Bandwidth Selection Multiple SSID (4 SSID) VLAN WDS AP/WDS Bridge
Security	Authentication: - 802.11i (WPA, WPA2) - 802.1x (including EAP-TLS/TTLS) IEEE 802.1x Supplicant support in CB mode Encryption: Open, WEP-64/128, TKIP, AES MAC address access control list Hide SSID in beacons User Isolation MAC address Filtering NAT in Client Router mode
QoS	WMM
<b>Management</b>	
Configuration	Web-based configuration (HTTP)/Telnet
Firmware Upgrade	Upgrade firmware via web browser Fix latest setting parameter when firmware upgrading
Administrator Setting	Administrator password can be changed
System monitoring	Status in hand , useful statistic and Event log
Reset Setting	Reset to factory default and reboot
MIB	MIB I , MIB II(RFC1213) and Private MIB
SNMP	V1 , V2c
Backup	Save all setting and condition to a file by web

## Environment & Mechanical

Temperature Range	Operating -20°C~70°C Storage -30°C to 80°C
Humidity (non-condensing)	0%~95% typical
Dimensions	260mm (L) x 175mm (W) x 65mm (H)
Weight	730g

V2.0

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