THE LEADER IN LONG RANGE BUSINESS CLASS WIRELESS DATA

EOA7530

Business Class 802.11a/b/g Outdoor Dual Radio Concurrent AP/Bridge/Repeater

Key Differentiators

HIGH PERFORMANCE DUAL RADIO DESIGN

- Two high-powered independent radios. (802.11a & 802.11b/g)
- High-powered 600mW wireless power provides long distance link

MULTI-FUNCTIONAL DEVICE

- Long range concurrent dual band AP/Bridge
- Long range dual radio repeater (802.11a for backhaul / 802.11b/g for rebroadcast)
- Flexible solution for various network topologies & wireless applications

DUAL HIGH-GAIN DETACHABLE ANTENNAS

- Features high-gain, dual-band 5 dBi antennas designed for faster throughput & greater coverage
- Perfect for both Point-to-Point & Point-to-MultiPoint applications
- Upgradeable antenna to increase range and receive sensitivity

SIGNAL STRENGTH LED INDICATOR

- Allows network installer for easy deployment

MULTIPLE WIRELESS NAMES (AP MODE)

- Broadcasts multiple SSID's in one device
- Permits different levels of network access (VLAN Tagging)

POWER-OVER-ETHERNET (48V- PROPRIETARY) CAPABLE

- Power and data over one single cable for convenient installation
- Power Injector Included

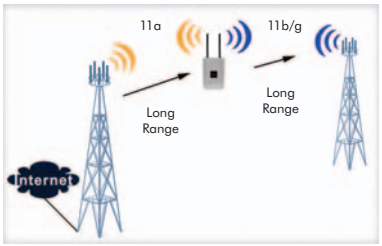
INTELLIGENT QUALITY OF SERVICE (QOS) TECHNOLOGY

- Facilitates bandwidth priority for VoIP, video streaming, online gaming

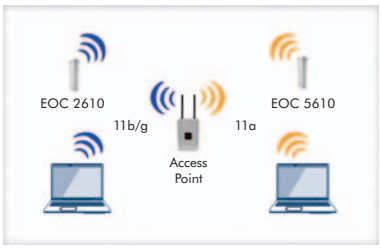
Ideal For:

OUTDOOR REPEATER

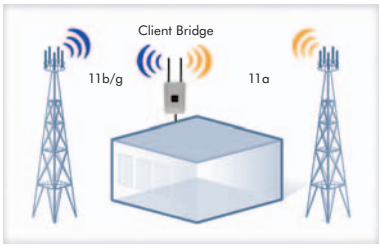
OUTDOOR WIFI



REPEATER



CONCURRENT DUAL BAND AP



CONCURRENT DUAL BAND CLIENT BRIDGE

EnGenius®

EOA7530 – Technical Specifications

Specifications may change without notice.

HARDWARE SPECIFICATION

MCU	Atheros AR7161
RF	Atheros AR5413 (Radio1) + Atheros AR5413 (Radio2)
Memory	64MB SDRAM
Flash	8 MB
Physical Interface	One 10/100 Fast Ethernet RJ-45 One 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	**802.11a**: 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz **802.11b/g**: 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
Operation Channels	**802.11a**: 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) **802.11b/g**: 11 for North America, 14 for Japan, 13 for Europe
Receive Sensitivity (Typical)	IEEE 802.11a: -92dBm @ 6Mbps • -73dBm @ 54Mbps IEEE 802.11g: -94 dBm @ 6Mbps • -74 dBm @ 54Mbp IEEE 802.11b: -97 dBm @ 1Mbps • -92 dBm @ 11Mbps

Available transmit power (Average power)

Radio 1 (WLAN1)

FCC		ETSI	
Frequency	Power	Frequency	Power
5.150~5.350 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.150~5.350 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps
5.470~5.725 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.470~5.725 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps
5.725~5.825 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps	5.725~5.825 GHz IEEE802.11a	28dBm@6~24Mbp 26dBm@36Mbps 24dBm@48Mbps 22dBm@54Mbps

Radio 2 (WLAN2)

FCC		ETSI	
Frequency	Power	Frequency	Power
2.412~2.462 GHz IEEE802.11g	28dBm@6~24Mbp 26dBm@36Mbps 25dBm@48Mbps 24dBm@54Mbps	2.412~2.472 GHz IEEE802.11g	28dBm@6~9Mbps 26dBm@12~18Mbp 25dBm@24~36Mbp 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 802.11a/b/g Dual Band 5dBi Omni Antenna

SOFTWARE FEATURES

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) Concurrent AP Concurrent Client Bridge Concurrent Client Router
LAN	DHCP Server (AP mode) / DHCP Client (CR mode)
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 (up to 4) with 802.1q VLAN Tagging (AP mode) 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 / User isolation / MAC address Filtering / NAT in Client Router mode
QoS	WMM

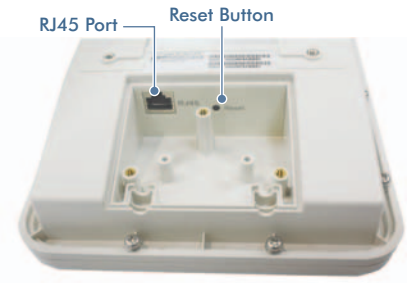
MANAGEMENT

Configuration	Web-based configuration (HTTP)/Telnet
Firmware Upgrade	Upgrade firmware via web browser Keep latest setting parameter when firmware upgrade
Administrator Setting	Administrator password change
System monitoring	Status, 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 settings to a file via web

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: -20°C to 70°C (-4°F to 158°F) Storage: -30°C to 80°C (-22°F to 176°F)
Humidity (non-condensing)	0% ~ 95% typical
Dimensions	L: 10.24" (260mm) x W: 6.89" (175mm) x H: 2.56" (65mm)
Weight	1.10 lb. (730g)

EOA7530 BOTTOM



EOA7530 BACK PANEL

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