

EOR7550

Business Class 802.11a/b/g/n Outdoor Dual Radio Repeater



Key Differentiators

HIGH PERFORMANCE DUAL RADIO DESIGN

802.11b/g/n for local client access & 802.11a/b/g for backhaul
High Powered 802.11a/b/g radio provides long distance link
Wireless N 300Mbps speed provides excellent throughput

SIGNAL STRENGTH LED INDICATOR

Allows network installer for easy deployment

MULTI-FUNCTIONAL DEVICE

Offers multi operation modes for different network topologies
Flexible solution for various wireless applications

MULTIPLE WIRELESS NAMES (AP MODE)

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

DUAL ANTENNA DESIGN

Embedded 6dBi antenna (802.11b/g/n) with external antenna connectors
N-type (802.11a & 802.11b/g)
Features MIMO antenna technology for faster throughput & greater coverage 802.11b/g/n
Perfect for both Point-to-Point & Point-to-MultiPoint applications
Upgradeable antenna to increase range and receive sensitivity

POWER-OVER-ETHERNET (802.3AF) CAPABLE

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

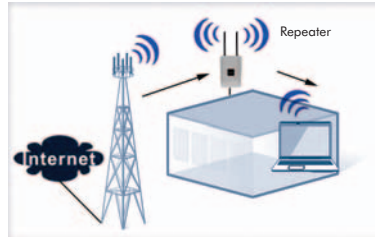
INTELLIGENT QUALITY OF SERVICE (QOS) TECHNOLOGY

Facilitates bandwidth priority for VoIP, video streaming, online gaming

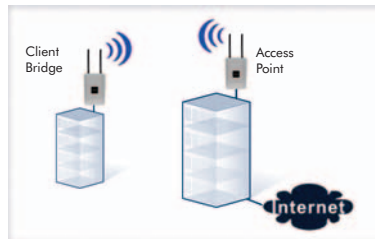
Ideal For:



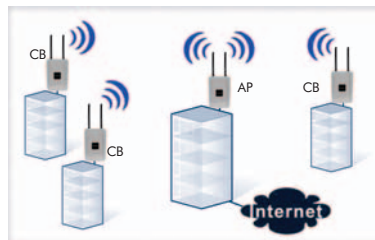
OUTDOOR REPEATER
OUTDOOR WIFI



REPEATER



POINT-TO-POINT



POINT-TO-MULTIPOINT



EOR7550 – Technical Specifications

Specifications may change without notice.

HARDWARE SPECIFICATION

MCU	Ralink RT2880
RF	Atheros AR5414 (Radio1) + Ralink RT2820 (Radio2)
Memory	32MB SDRAM
Flash	8MB
Physical Interface	One 10/100 Fast Ethernet RJ-45 One Reset Button
Power Requirements	Power over Ethernet, 48V DC/0.375A
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/n: 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)	IEEE802.11a: -92dBm @ 6Mbps • -73dBm @ 54Mbps IEEE802.11g: -94 dBm @ 6Mbps • -74 dBm @ 54Mbps IEEE802.11b: -97 dBm @ 1Mbps • -92 dBm @ 11Mbps IEEE802.11n: -91 dBm @ MCS8 • -74 dBm @ MCS15			
Available transmit power (Average power)	Radio 1 (WLAN1)			
	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
	2.412~2.462 GHz IEEE802.11g	28dBm@6~24Mbps 26dBm@36Mbps 25dBm@48Mbps 24dBm@54Mbps	2.412~2.462 GHz IEEE802.11g	28dBm@6~24Mbps 26dBm@36Mbps 25dBm@48Mbps 24dBm@54Mbps
	2.412~2.462 GHz IEEE802.11b	28dBm@1~11Mbps	2.412~2.462 GHz IEEE802.11b	28dBm@1~11Mbps
	Radio 2 (WLAN2)			
	FCC		ETSI	
Frequency	Power	Frequency	Power	
2.412~2.462 GHz IEEE802.11g/n	19dBm@6~24Mbps 18dBm@36Mbps 17dBm@48Mbps 16dBm@54Mbps	2.412~2.472 GHz IEEE802.11g/n	19dBm@6~9Mbps 18dBm@12~18Mbps 17dBm@24~36Mbps 16dBm@48~54Mbps	
2.412~2.462 GHz IEEE802.11b	18dBm@1~11Mbps	2.412~2.472 GHz IEEE802.11b	18dBm@1~11Mbps	
Internal Antenna	1 x Simulated Omni Antenna (2.4GHz) for 802.11b/g/n			
External Antenna	2 x N type connector for 802.11a and 802.11b/g			

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) • RFC 768 UDP • RFC 791 IP • RFC 792 ICMP • RFC 793 TCP • RFC 826 ARP • RFC 1034, 1035 DNS • RFC 1058 RIP • RFC 1305 NTP • RFC 1541 / 2131 / 3046 DHCP client / Server • RFC 2068 / 2616 HTTP • RFC 2516 PPPoE • RFC 2865,2866 RADIUS				
LAN	DHCP Server DHCP Client				
Wireless	Auto Channel Selection (Setting varies by Regular Domains) Transmission Rate 11 a/b/g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps 11n:				
	MCS Index	Guard Interval 800ns	Guard Interval 400ns		
		20 MHz	40 MHz	20 MHz	40 MHz
	0	6.5	13.5	7.2	15
	1	13	27	14.4	30
	2	19.5	40.5	21.7	45
	3	26	54	28.9	60
	4	39	81	43.3	90
	5	52	108	57.8	120
	6	58.5	121.5	65	135
7	65	135	72.2	157.5	
8	13	27	14.4	30	
9	26	54	28.9	60	
10	39	81	43.3	90	
11	52	108	57.8	120	
12	78	162	86.7	180	
13	104	216	115.6	240	
14	117	243	130	270	
15	130	270	144.4	300	
Security	Distance Control (802.1x Ack timeout) Signal Strength indication using LEDs Bandwidth Selection				
	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 MSSID Support in client access mode Hide SSID in beacons User isolation MAC address Filtering NAT in Client Router mode Multiple SSID (4 SSID)				
	QoS				
	WMM				

MANAGEMENT

Configuration	Web-based configuration (HTTP/Telnet)
Firmware Upgrade	Upgrade firmware via web browser Fix latest setting parameter when firmware upgrading
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 all setting and condition to a file by 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	1.32 lb. (600g)

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