EOR7550

Dual Radio Multi-Function Repeater

- 2.4 GHz / 5 GHz
- 300Mbps
- 802.11a/b/g/n
- Multi Function

PRODUCT OVERVIEW

EOR7550 equips with two powerful independent RF interfaces which support 802.11a/b/g and 802.11b/g/n. 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 6 different modes with maximum of 18 combinations. With 802.11n support, EOR7550 offers bandwidth up to 300Mbps 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.
EOR7550 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. EOR7550 is a true carrier-grade product which is guaranteed to fulfill any business proposals.

BUSINESS CLASS

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FEATURES

Specification

- **Dual Radio** Two radio for independent backhaul(a/b/g,Radio1) and local access(b/g/n,Radio2).
- **High Data Rate** High speed physical transmitting rate up to 300Mbps with 11n, support large payload such as MEPG video streaming
- **Multifunction application** Defining each radio configuration for different application
- **Wireless Distributed System (WDS)** Supporting WDS to bridge repeater
- **Multiple SSID** 4 BSSID supported. Primary(1st) 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

- **Public wireless solution** An AP interface that is especially useful in public areas such as hotspots and enterprise
- **Bandwidth Selection** Provides 5MHz/ 10MHz/ 20MHz for 802.11a/b/g and 20MHz/ 40MHz for 802.11n
- **Signal Strength** Display 0%~100% to show the signal condition for more convenient installation and setup.
- **QoS(WMM)** Enhance performance and density

Security

- **802.11i** WPA, WPA2
- **802.1x** EAP-TLS/TTLS, IEEE 802.1x Supplicant support in CB mode
- **MAC address functions** MAC address access control list, MAC address filter
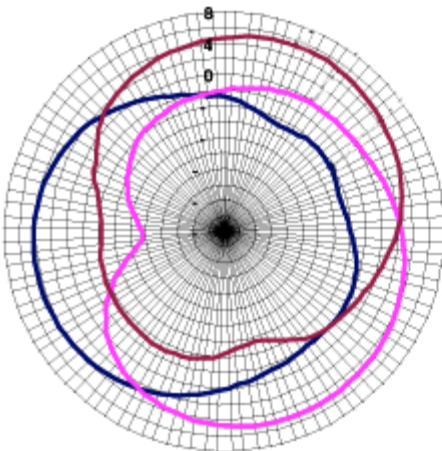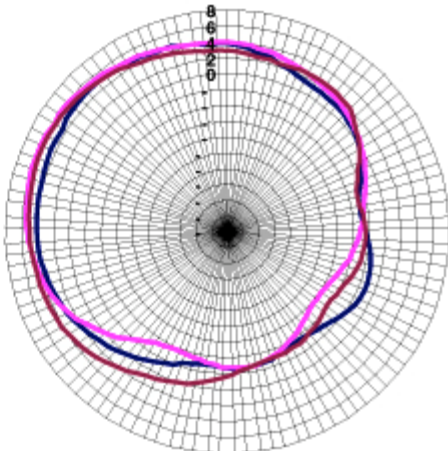
Management

- **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) and private MIB
- **SNMP** V1, V2c

TECHNICAL SPECIFICATIONS

Hardware Specifications	
RF	Atheros AR5414 (Radio1) + Ralink RT2820 (Radio2)
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	

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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
Operating 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)	**802.11a** -92dBm @ 6Mbps, -73dBm @ 54Mbps	**802.11g** -94 dBm @ 6Mbps, -74 dBm @ 54Mbp	**802.11b** -97 dBm @ 1Mbps -92 dBm @ 11Mbps	**802.11n** -91 dBm @ MCS8 -74 dBm @ MCS15

Available transmit power

Radio 1 (WLAN 1)

	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

EOR7550 Data sheet Version 121110

Theoretical wireless signal rate based on IEEE standard of 802.11 b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.
*** All specifications are subject to change without notice*

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Radio 2 (WLAN 2)

	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 6dBi Omni Antenna (2.4GHz) for 802.11b/g/n
External Antenna	2 x N type (female) connector for 802.11a and 802.11b/g

Antenna Radiation Pattern

SOFTWARE FEATURES
GENERAL

Topology	Infrastucture

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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
Operation Mode	DHCP Client
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	• Wireless Mode – 11b / 11g / Super G / Disable
	• Channel Selection (Setting varies by Country)
	• Transmission Rate
	- 11 b/g: 108, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps
	• Transmit power control (by dBm)
	• Antenna Diversity
Security	• WEP Encryption-64/128/152 bit
	• WPA Personal (WPA-PSK using TKIP or AES)
	• WPA Enterprise (WPA-EAP using TKIP)
	802.1x Authenticator
	Hide SSID in beacons
	Multiple SSID with 802.1q VLAN tagging (up to 4 SSIDs)
	MAC Filter
	L2 isolation
	Wireless STA (Client) connected list
QoS	WMM
MANAGEMENT	
Configuration	Web-based configuration (HTTP)/Telnet

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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 more than 5 seconds)
System monitoring	Status, Statistics and Event Log
SNMP	V1, V2c
MIB	MIB I, MIB II (RFC1213)
Backup & Restore	Settings through Web

ENVIRONMENT AND MECHANICAL	
Temperature Range	• Operating: 0°C to 45°C (32°F to 113°F) • Storage: -20°C to 70°C (-4°F to 158°F)
Humidity (non-condensing)	5%～95% typical
Dimensions	Diameter: 120mm Height: 50mm
Weight	280g

PACKAGE CONTENT
► Dual Radio Multi-Function Repeater (EOR7550)
► PoE injector with Power Adapter
► CD with User's Manual
► QIG
► Wall Mounting kit
► 1.8m Grounding Cable

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