

# 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.

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*

BUSINESS CLASS

# EOR7550

## 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 MPEG 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(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

- **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

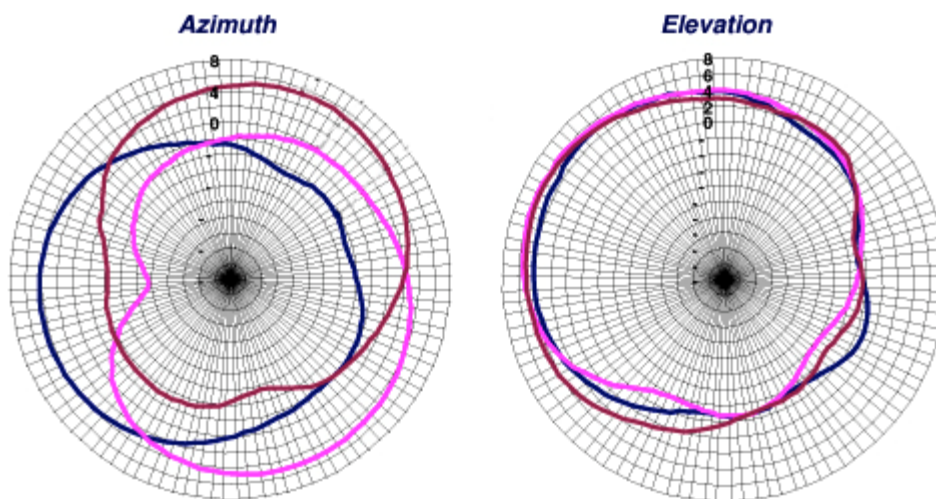
### Hardware Specifications

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	

Frequency Band	<b>802.11a</b> 5.15 ~ 5.35GHz, 5.47 ~ 5.725GHz, 5.725~5.825GHz  <b>802.11b/g/n</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 @ 54Mbps	<b>802.11b</b> -97 dBm @ 1Mbps -92 dBm @ 11Mbps	<b>802.11n</b> -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	

	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

Infrastructure

Protocol / Standard	<p>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</p>
Operation Mode	DHCP Client
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> <li>• Wireless Mode – 11b / 11g / Super G / Disable</li> <li>• Channel Selection (Setting varies by Country)</li> <li>• Transmission Rate <ul style="list-style-type: none"> <li>- 11 b/g: 108, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps</li> </ul> </li> <li>• Transmit power control (by dBm)</li> <li>• Antenna Diversity</li> </ul>
Security	<ul style="list-style-type: none"> <li>• WEP Encryption-64/128/152 bit</li> <li>• WPA Personal (WPA-PSK using TKIP or AES)</li> <li>• WPA Enterprise (WPA-EAP using TKIP)</li> <li>802.1x Authenticator</li> <li>Hide SSID in beacons</li> <li>Multiple SSID with 802.1q VLAN tagging (up to 4 SSIDs)</li> <li>MAC Filter</li> <li>L2 isolation</li> <li>Wireless STA (Client) connected list</li> </ul>
QoS	WMM
<b>MANAGEMENT</b>	
Configuration	Web-based configuration (HTTP)/Telnet

Firmware Upgrade	<ul style="list-style-type: none"> <li>• Upgrade firmware via web-browser</li> <li>• Keep latest setting when f/w update</li> </ul>
Administrator Setting	Administrator password change
Reset Setting	<ul style="list-style-type: none"> <li>• Reboot (press 1 second)</li> <li>• Reset to Factory Default (press more than 5 seconds)</li> </ul>
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	<ul style="list-style-type: none"> <li>• Operating: 0°C to 45°C (32°F to 113°F)</li> <li>• Storage: -20°C to 70°C (-4°F to 158°F)</li> </ul>
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