

ESR-7750

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

300Mbps Wireless N Dual-Band Router

Wirelessly Network and Share Multimedia

2.4GHz

a b g n

Designed to be flexible and reliable, the EnGenius Wireless N Dual-Band Router offers the ultimate network performance for all data and media intensive applications. Two built-in Wireless N access points work together, simultaneously to provide double the bandwidth.. Networking, web surfing, email and file sharing all can be done using the 2.4GHz access point in the Router while latency sensitive traffic, like multimedia and HD video use the less crowded 5GHz band. Quality of Service ensures streaming video, VoIP, gaming, and multimedia applications receive highest priority for flawless performance. Industry standard wireless security and a powerful SPI firewall keep your network safe. The Wireless N Dual Band Router is a perfect choice for your home or small office.

One-Touch Setup



WDS



Power Saving



WEP, WPA WPA2



WiFi Multimedia



Key Differentiators

SIMULTANEOUS DUAL-BAND WIRELESS 802.11N TECHNOLOGY

Two Access Points work together to double bandwidth and avoid interference. Supports 802.11a,b,g,n

SMARTNAT

Ensures high performance when using P2P applications

MULTIPLE SSID

Allows media streaming to be segmented from regular data networking
Create a separate SSID for Guest Access

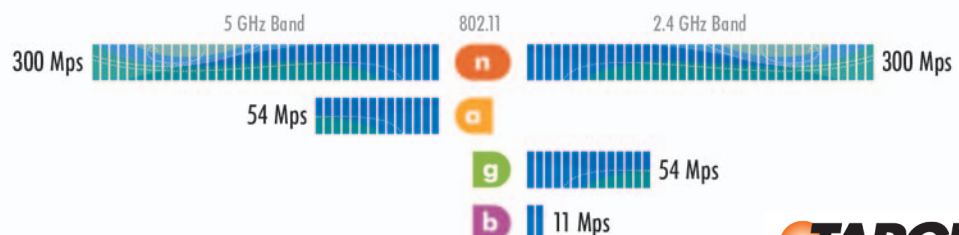
SECURITY & MANAGEMENT

- Secure Push-Button Setup
- Policy Based Parental Control for safe browsing
- Power saving management (Green Technology)
- Auto Firmware Recovery
- Wi-Fi Protected Access (WPA2/WPA)
- Powerful SPI Firewall
- Wireless MAC Address Filtering

MULTIPLE INTERNAL ANTENNA ARRAY

Optimized internal antennas provide superior range

Wireless Speed Comparison



TARGET
DISTRIBUTING

800.873.5528
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EnGenius
www.engeniustech.com

Maximum data rates are based on IEEE 802.11 standards. Actual throughput and range can vary depending on many factors including network conditions, environmental factors, distance between devices, radio interference in the operating environment, and mix of devices in the network

Technical Specifications

Specifications may change without notice.

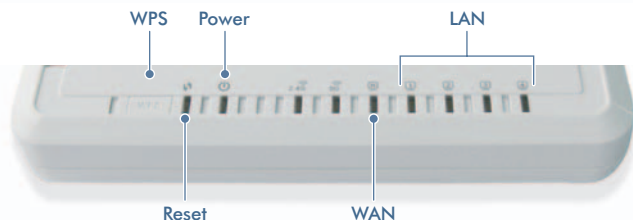
HARDWARE SPECIFICATION

MCU	Ralink RT2880 266MHz (BB) + RT2850 (5G RF) Ralink RT3052 384MHz SoC (BB+RF)
Memory	32MB SDRAM
Flash	4MB+2MB
Physical Interface	WAN: 1 * 10/100 Fast Ethernet RJ-45 LAN: 4 * 10/100 Fast Ethernet RJ-45 Reset Button (5 second for reboot; 5~10 seconds for reset to factory default) Power Jack WPS push button (Wi-Fi Protected Setup)
LED's Status	Power/Status Internet (WAN) LAN1 ~ LAN4 (10/100Mbps) WLAN 2.4GHz WLAN 5GHz WPS
Power Requirements	Power Supply: 200 to 240 VDC $\pm$ 10% (ETSI) 100 to 120 VDC $\pm$ 10% (FCC) Device: 12V/1.25A

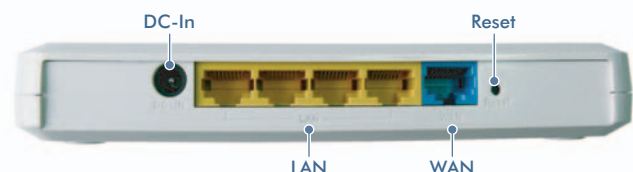
RF SPECIFICATION

Frequency Band	2.400~2.484 GHz (11b, 11g, 11n), 5GHz (11a, 11n)
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK
Operation Channels	2.4GHz 11 for North America, 14 for Japan, 13 for Europe 5GHz North America, Europe
Wireless Settings	Operation Mode – AP / Router Wireless Mode – 11a/11b/ 11g /11n (Draft 2.0) Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate – 11n only mode, 11b/g/n mix mode, 11b only mode, 11b/g mode, 11a mode, 11a/b/g/n mix mode
Receive Sensitivity (Typical)	11b: -91dBm 11g: -75dBm 11a: -75dBm 11n: -75dBm
Available Transmit Power	11b: 17dBm 11g: 14dBm 11a: 14dBm 11n: 15dBm
Antenna *4	Peak Gain = 4 dBi
Front Panel (LED status)	
WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	2 (Link-> blue on, traffic->blink)
WPS	1 (Station associate-> blue blinking)
Power/Status	1 (On-> red Test/reset default->blink)

FRONT PANEL



BACK PANEL



SOFTWARE FEATURES

Router and Gateway	
Topology	Infrastructure
Operation Mode	AP/Router
LAN	Over 26% Power saving (Green technology) DHCP Server
WAN	PPTP • PPPoE • Static IP • DHCP Client • Clone MAC address
Router	NAT/ NAPT Static Routing Dynamic Route Virtual server mapping IP address mapping Port Forwarding Port Triggering
Firewall	Block ICMP Ping DoS(Blocking Ping, Port scan, Sync Flood) MAC / IP Filtering SPI (Stateful Packet Inspection)
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	Isolation Multiple SSID Output Power Control WDS Power saving(Green technology) 64/128 bit WEP Encryption
QoS	WMM Application base: Priority Queue • Bandwidth Allocation
Management	
Smart wizard	Guides user through setup process
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Via webpage upgrade Auto recovery if firmware upgrade fails
Administrator Setting	Administrator password change Idle time out
Reset Setting	Reboot Reset to Factory Default
System monitoring	Speed and Bandwidth monitoring
Scheduling	Enable Firewall Enable power saving

ENVIRONMENT & PHYSICAL

Temperature Range	Operating: 0°C to 45°C (32°F to 113°F) Storage: -10°C to 70°C (14°F to 158°F)
Humidity (non-condensing)	15% ~ 95% typical
Dimensions	L: 6.69" (170mm) x W: 4.37" (111mm) x H: 1.02" (26mm)
Weight	Around 0.71lb. (320g)

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