

ESR1221N

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

150 Mbps Wireless Router

Wirelessly share a broadband internet connection

2.4GHz



Get the Internet without wires.

Based on today's most advanced wireless N networking technology, the ESR1221N 150Mbps Wireless Router is designed to give you higher performance and superior range over standard wireless-G Routers.

Perfect for getting your whole family online - all at the same time.

The 4-Port Switch allows wired computers and devices to connect together for a seamless networking experience.

Easy to use and setup.

With the included Installation Wizard and advanced push-button security setup, you will be up and running and online in minutes.

One Touch Setup



WDS



POWER SAVING



WEP
WPA
WPA2



HACKER SHIELD



Key Differentiators

MULTIPLE SSID SUPPORT

Allows media streaming to be segmented from regular data networking

Secure private local Internet while sharing wireless connection with others

INTELLIGENT QUALITY OF SERVICE (QoS)

Support QoS to optimize data sensitive streaming for reliable and smooth streaming

SECURITY & MANAGEMENT:

Secure Push-Button Setup

Auto firmware recovery

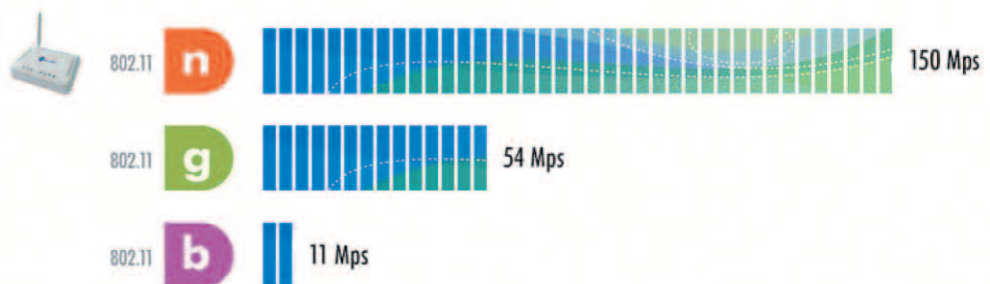
WEP / WPA / WPA2

Powerful SPI Firewall

Wireless MAC Address Filtering

EXTERNAL ANTENNA FOR GREATER COVERAGE

Wireless Speed Comparison



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

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Technical Specifications Specifications may change without notice.

HARDWARE SPECIFICATION

Memory	16MB SDRAM
Flash	2MB
Physical Interface	WAN: One 10/100 Fast Ethernet RJ-45 LAN: Four 10/100 Fast Ethernet RJ-45 Reset Button Power Jack WPS (Wi-Fi Protected Setup)
LED's Status	Power Status WAN (Internet connection) 10/100Mbps LAN1~ LAN4 WLAN (Wireless Connection)
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC) Device: 5V/1A
WAN	1 (Link-> blue on, traffic->blink)
LAN	4 (Link-> blue on, traffic->blink)
WLAN	1 (Link-> blue on, traffic->blink)
Power/Status	1 (On-> red Test/reset default->blink)

RF SPECIFICATION

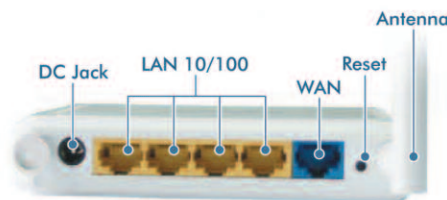
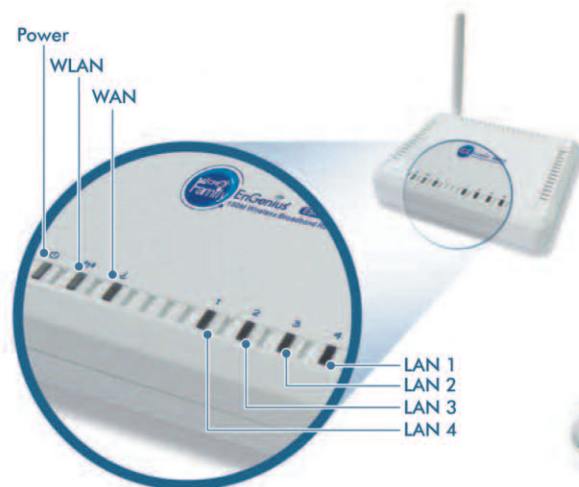
Frequency Band	2.400-2.484 GHz				
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM DBPSK, DQPSK, CCK				
Operation Channels	11 for North America, 14 for Japan, 13 for Europe				
Wireless Settings	Wireless Mode -11b/11g/11n Channel Selection (Setting varies by Country) Channel Bandwidth (Auto, 20Mhz, 40Mhz) Transmission Rate 11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps				
		Guard Interval 800ns		Guard Interval 400ns	
	MCS Index	20MHz (Mbps)	40MHz (Mbps)	20MHz (Mbps)	40MHz (Mbps)
	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	
Receive Sensitivity (Typical)	IEEE 802.11n best ≤ -85dBm IEEE 802.11g best ≤ -88dBm IEEE 802.11b best ≤ -90dBm				
Available Transmit Power	IEEE 802.11n: MCS7@ 18dBm IEEE 802.11g: 6 - 54 Mbps@18dBm IEEE 802.11b: 1, 11Mbps@19dBm				
Antenna *1	Peak Gain=2 dBi				

SOFTWARE FEATURES

Router and Gateway	
Topology	Infrastructure
Operation Mode	AP/Router
LAN	DHCP Server Static Routing Table UPNP
WAN	PPTP • PPTPvE • Static IP • DHCP Client • Clone MAC address
Router	NAT/ NAPT Static Routing Dynamic Route Virtual server mapping IP address mapping Port Forwarding Port Triggering Special application DNS Relay DDNS Time Zone(NTP client)
Firewall	Block ICMP Ping DoS(Block ICMP Ping, Port scan, Sync Flood) MAC/IP Filtering ICMP Blocking SPI (Stateful Packet Inspection) DMZ (Demilitarized Zone) Host Policy Based Parental Controls Port Range / Service Filtering Internet Domain Restriction
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	64/128 bit WEP Encryption WPA Personal (WPA-PSK using TKIP or AES) WPA Enterprise (WPA-EAP using TKIP) 802.1x Authenticator Hide SSID in beacons Wi-Fi Protection Setup (WPS) WDS ACL control Best Channel selection Speed/Bandwidth monitor
QoS	WMM Application base Priority Queue Bandwidth Allocation
Management	
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
Easy Access	User can type model name and access the main page
Install wizard	Guides user to set-up router smoothly

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: 4.92" (125mm) x W: 3.86" (98mm) x H: 0.98" (25mm)
Weight	0.61 lb. (275g)



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