

**ESR1221N2**

THE LEADER IN LONG RANGE WIRELESS HOME NETWORKING

# 300 Mbps Wireless N Router

*Wirelessly share a broadband Internet connection*

2.4GHz



Take advantage of the fastest wireless networking for your home or small home office. The ESR1221N2 300Mbps Wireless N Router was designed with range and speed in mind. With expanded bandwidth, multiple users can wirelessly go online, make large file transfers, print to networked printers, and stream multimedia - at the same time. For larger homes or offices, the ESR1221N2 Router is a perfect choice to connect everyone together and to the Internet.

## Powerful Protection

Supports the latest industry standard wireless data encryption to protect your data and networking activity - all with a push of a button.

## Easy to use and setup

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

## One Touch Setup



## WDS



## POWER SAVING



## WEP WPA WPA2



## HACKER SHIELD



## Key Differentiators

### WIRELESS 802.11N TECHNOLOGY

The most advanced wireless networking technology for the best range and speed

### EASY SETUP

Smart Wizard CD with Step-by-Step screens to guide you through first-time setup

### MULTIPLE SSIDS

Secure private local Internet while sharing wireless connection with others

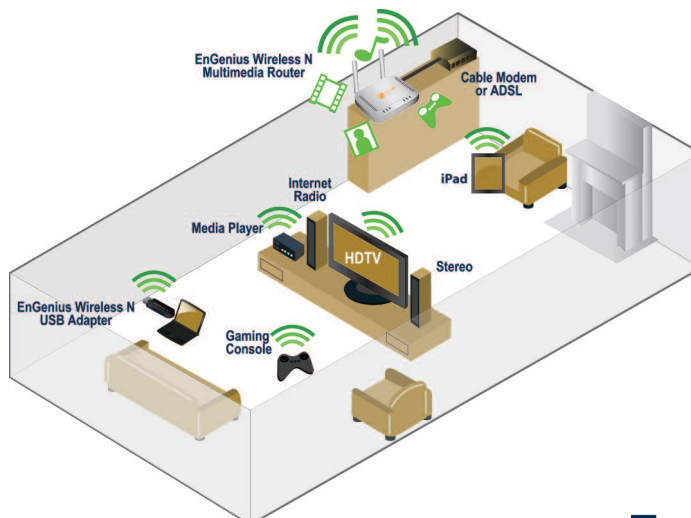
### QUALITY OF SERVICE (QoS)

Prioritize latency-sensitivity data to ensure multimedia playing without lags

### SECURITY & MANAGEMENT

Secure Push-Button Setup  
Auto Firmware Recovery  
WEP/WPA/WPA2  
Powerful SPI Firewall  
Wireless MAC Address Filtering

### EXTERNAL ANTENNA FOR GREATER COVERAGE



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

**EnGenius**  
www.engenius-tech.com

## Technical Specifications

Specifications may change without notice.

### HARDWARE SPECIFICATIONS

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 $\pm$ 10% (ETSI) 100 to 120 VDC $\pm$ 10% (FCC) Device: 5A/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 SPECIFICATIONS

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
	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
Receive Sensitivity (Typical)	IEEE 802.11n (2RX) ≤ - 82dBm IEEE 802.11g (2RX) ≤ - 90dBm IEEE 802.11b (1RX) ≤ - 90dBm				
Available Transmit Power	IEEE 802.11n: MCS 0 ~15@ >16dBm IEEE 802.11g: 6 ~ 54 Mbps@16dBm IEEE 802.11b: 1, 11Mbps@18dBm				
Antenna *2	Peak Gain=2 dbi				

### SOFTWARE FEATURES

#### Router and Gateway

Topology	Infrastructure
Operation Mode	AP/Router
LAN	DHCP Server Static Routing Table UPNP
WAN	PPTP • PPPoE • Static IP • DHCP Client • Clone MAC address
Router	NAT/ NATP Static Routing Dynamic Route Virtual server mapping IP address mapping Port Forwarding Port Triggering Special application ALG(Application Layer Gateway) support 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)
Wireless	64/128 bit WEP Encryption WPA-PSK using TKIP or AES WEP/WPA/WPA2 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

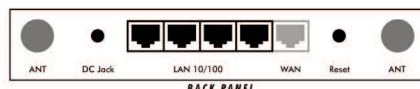
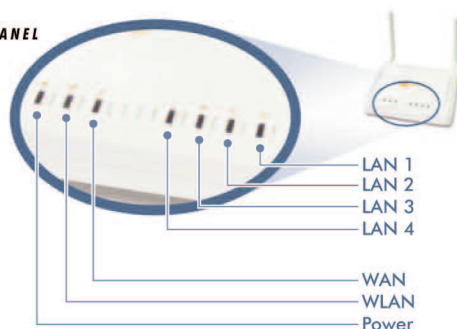
#### Management

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)

FRONT PANEL



### EnGenius Technologies

1580 Scenic Avenue  
Costa Mesa, CA 92626  
USA

888.735.7888

**TARGET**  
DISTRIBUTING

800.873.5528  
WWW.TARGETD.COM

EnGenius®  
www.engenius-tech.com