

ESR1221N 11N Wireless Router

2.4GHz 150Mbps 11N Router/AP



ESR1221N is a 150Mbps AP Router offers user unprecedented network performance with economic circuit design. WMM support boosts streaming and multimedia intensive services. Multiple SSID provides advance users to manage multiple users of various needs. TX power control enables flexible transmission tuning for different installation needs and prevents malicious eaves-dropping. Isolation, filter, firewall and full coverage of security standards promise a securer network environment.

Package Contents

- 1* ESR1221N
- 1*5V/1A Power Adapter
- 1*QIG
- 1*CD (User's Manual)

Software Features

Router User Interface

Access method	Web Based (HTTP 1.0 / 1.1)
Browser Compatibility	Microsoft IE 6.0 or above

Status

System Status	System Information	Y	System Up Time, Device Name, Wireless MAC, LAN MAC, Country, Current Time, Firmware Version
	Current IP Setting	Y	IP Address, Subnet Mask, Default Gateway, DHCP
	Current Wireless Setting	Y	Operation mode, Wireless Mode, Channel/Frequency, L2 Isolation, MSSID Setting
	Client List		List current associated clients. Show only authorized and associated clients
System Log			Displays a list of events triggered

Wireless Functional List

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Operation mode		Y	Router
		Y	WDS
802.11 mode options		Y	b/g/n
Channel setting		Y	Manual
		Y	Auto / Best Channel Selection
Transfer rate setting		Y	Auto and Manual
Output Power Control		Y	High / Medium / Low
Power Saving		Y	Wireless LAN power saving
Multiple BSSID (Multi AP)		Y	4 BSSID for 2.4Ghz
		Y	Each BSSID should has its own WiFi & security settings
WPS		Y	
Security	WEP	Y	WEP(64/128bit)
	WPA/ WPA2	Y	TKIP / AES
	Hidden ESSID	Y	
	MAC address filtering	Y	MAC address filtering (Both in WLAN and LAN)
	L2 Isolation	Y	
	802.1x Authenticator	Y	MD5/ TLS/ TTLS, PEAP (Nice to Have)

Functional List			
LAN Settings		Y	IP (check validity and DHCP server IP range) MAC
DHCP server		Y	DHCP Range, Lease Time, Client list
Router	NAT/ NAPT		Y
	Port Forwarding		Y
	Port Mapping		Y
	Port Tagging		Y
	ALG		Y
	VPN	VPN pass-thru	Y
		URL	Y
		IP	Y
			URL-Keyword blocking
			IP Filtering with scheduling function

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		Port	Y	TCP / UDP
		ICMP	Y	
	Block Ping From WAN		Y	Enable / Disable option box
	DMZ		Y	Multiple DMZ records
Dynamic DNS			Y	
MAC Clone			Y	Clone WAN port MAC supported / Change in WAN side MAC address
WAN side form	PPPoE	Y	PAP/CHAP	
		Y	Always (keep trying if fail)	
		Y	On demand / Manual	
		Y	Idle Time Out(disconnect if idled for a certain time)	
	DHCP Client	Y		
	PPTP	Y	PAP/CHAP	
		Y	Always (keep trying if fail)	
		Y	On demand / Manual	
		Y	Idle Time Out(disconnect if idled for a certain time)	
	Fixed IP	Y		
L2TP	Y			
Administration		N	User Name	
		Y	Password	
		Y	Confirmed Password	
Remote Login		Y	Customizable Port Default 8080	
Backup/ Restore Setting		Y	Save Current Setting Restore Saved Setting Reset to Factory Default	
Firmware Upgrade		Y	Firmware Upgrade Allow User to decide to Keep current setting or reset to default.	
UPnP		Y		
Diagnosis		Y	Address to Ping :	

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Technical Specifications

Hardware Specifications

MCU	RTL8196C+8188RE
Memory	16MB SDRAM
Flash	2MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: 1 x 10/100 Fast Ethernet RJ-45
	LAN: 4 x 10/100 Fast Ethernet RJ-45
	Rest button
	Power Jack
	WPS (WiFi Protected Setup)
Power Requirements	Power Supply:
	200 to 240 VDC $\pm$ 10% (ETSI)
	100 to 120 VDC $\pm$ 10% (FCC)
	Device: 5V/1A

Wireless Specifications

Frequency Band	2.400~2.484 GHz(11b, 11g, 11n)		
Modulation	OFDM: BPSK, QPSK, 16-QAM, 64-QAM		
Technology	DBPSK, DQPSK, CCK		
Operating Channels	11 for North America, 14 for Japan, 13 for Europe		
Wireless Setting	Operation Mode – AP / Router		
	Wireless Mode – 11b/ 11g /11n		
	Channel Selection (Setting varies by Country)		
	Channel Bandwidth (Auto, 20Mhz, 40Mhz)		
	Transmission Rate - 11n only ,11b/g/n mix ,11b only ,11b/g		
Receive Sensitivity (Typical)	2.412 ~ 2.472 GHz (11b) best $\leq$ -90 dBm		
	2.412 ~ 2.472 GHz (11g) best $\leq$ -88 dBm		
	2.412 ~ 2.472 GHz (11n) best $\leq$ -85 dBm		
Available transmit power	11b	1Mbps - 11Mbps	19
	11g	6Mbps - 9Mbps	19
		12Mbps - 18Mbps	18
		24Mbps - 36Mbps	17

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	11n	48Mbps - 54Mbps	16
		MCS 0-1 / 8-9	19
		MCS 2-3 / 10-11	18
		MCS 4-5 / 12-13	17
		MCS 6-7 / 14-15	16
Antenna	Fixed 2dBi Antenna (white)		

Environment & Mechanical

Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15%~95% typical
Dimensions	125mm (L) x 98mm (W) x 25mm (H)