

PRODUCT DESCRIPTION



ESR-9750 is a Wireless 11N Broadband Router that delivers up to 6x faster speeds and 3x extended coverage than 802.11g devices. ESR-9750 supports home network with superior throughput and performance and unparalleled wireless range. With easy to use on the WPS function, it helps users to connect to wireless device with just one push button. There's also a built-in 4-port full-duplex 10/100 Fast Switch to connect your wired-Ethernet devices together. The Router function ties it all together and lets your whole network shares a high-speed cable or DSL Internet connection.

Technical Specifications

HARDWARE SPECIFICATIONS

Physical Interface	<ul style="list-style-type: none"> ● WAN: One 10/100 Fast Ethernet RJ-45 ● LAN: Four 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)
LEDs Status	<ul style="list-style-type: none"> ● Power/ Status ● WAN (Internet connection) ● LAN1~LAN4 (10/100Mbps) ● WLAN (Wireless Connection)
Power Requirements	<ul style="list-style-type: none"> ● Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC) ● Device: 12V/1A

➤ **Front Panel (LED status)**

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)

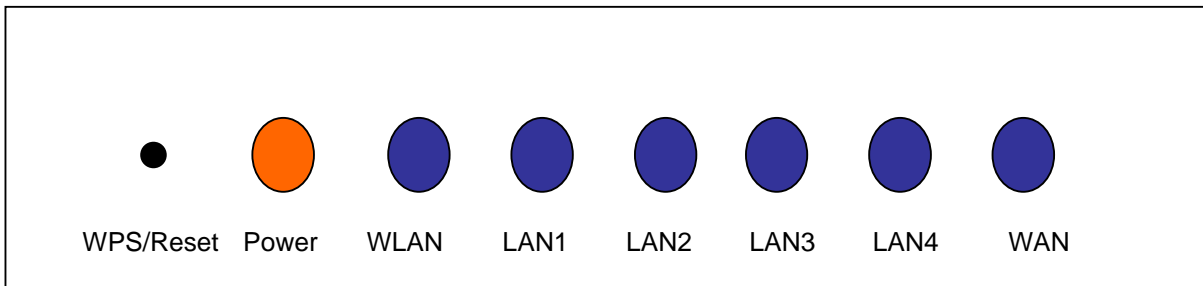
* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

** All specifications are subject to change without notice.

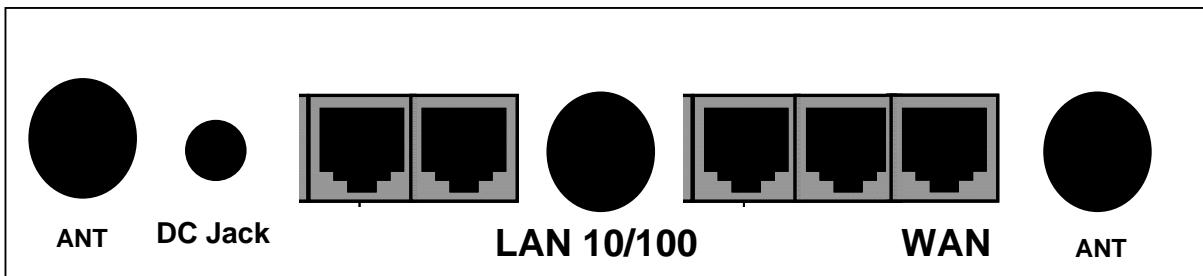
2.4 GHz

802.11b/g/n

300 Mbps



➤ Rear Panel (Interface)



PACKAGE CONTENT

- 1* 802.11n Broadband Router (ESR-9750)
- 1* 12V/1A Power Adapter
- 3* 2dBi Dipole Antennas
- 1*QIG
- 1*CD (User's Manual)

2.4 GHz

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RF SPECIFICATION

Frequency Band	2.400 ~ 2.484 GHz				
Modulation Technology	<ul style="list-style-type: none"> ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK 				
Operating Channels	11 for North America, 14 for Japan, 13 for Europe				
Wireless Setting	<ul style="list-style-type: none"> ● Operation Mode – AP / Repeater / WDS ● 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 				
	MCS index	Guard Interval 800ns		Guard Interval 400ns	
		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	

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Receive Sensitivity (Typical)	<ul style="list-style-type: none"> ● IEEE802.11n(3RX) MCS0/8 @ -91dBm MCS7/15@ -74dBm ● IEEE802.11g (3RX) 6Mbps@ -92dBm 54Mbps@ -75dBm ● IEEE802.11b (1RX) 1Mbps@ -93dBm 11Mbps@ -91dBm
Available transmit power	<ul style="list-style-type: none"> ● IEEE802.11N MCS 0~15@ >16dBm ● IEEE802.11g 6~54 Mbps@ 16dBm ● IEEE802.11b 1, 11Mbps@ 19dBm
Antenna *2	Peak Gain = 2 dBi Average Gain = 1.08 dBi (@ 2.45GHz, H-Plan)

SOFTWARE FEATURES

➤ Router and Gateway

Topology	Infrastructure
Operation Mode	AP/Router and Repeater mode
LAN	<ul style="list-style-type: none"> ● Over 26% Power saving (EnGenius Green technology) ● DHCP Server ● Static Routing Table ● UPNP
WAN	<ul style="list-style-type: none"> ● PPTP ● PPPoE ● Static IP ● DHCP Client ● Clone MAC
Router	<ul style="list-style-type: none"> ● NAT/ NAPT ● Static Routing ● Dynamic Route ● Virtual server mapping ● IP address mapping ● Port Forwarding ● Port Triggering ● Special application ● ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP) ● DNS Relay ● DDNS ● Time Zone(NTP client)
Firewall	<ul style="list-style-type: none"> ● Blocking Ping ● DoS(Blocking Ping, Port scan, Sync Flood)

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	<ul style="list-style-type: none"> • MAC / IP Filtering • ICMP Blocking • SPI (Stateful Packet Inspection) • DMZ (Demilitarized Zone) Host • Policy Based Parental Controls <ul style="list-style-type: none"> ➢ Port Range / Service Filtering ➢ Internet Domain Restriction ➢ Dynamic URL Filtering (OEM subscription service)
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> • Energy saving (EnGenius Green technology) • 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	<ul style="list-style-type: none"> • WMM <ul style="list-style-type: none"> • Application base <ul style="list-style-type: none"> ➢ Priority Queue ➢ Bandwidth Allocation • Port base

➤ Management

Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> • Via webpage upgrade • Auto recovery once firmware upgrade fail
Administrator Setting	<ul style="list-style-type: none"> • Administrator password change • Idle time out
Reset Setting	<ul style="list-style-type: none"> • Reboot • Reset to Factory Default
System monitoring	Speed and Bandwidth monitoring
Scheduling	<ul style="list-style-type: none"> • Enable Firewall • Enable power saving
Easy access	<ul style="list-style-type: none"> • User can type model name and access the main page.
Install wizard	<ul style="list-style-type: none"> • Device act as AP/Router mode • Device act as Repeater mode

ENVIRONMENT & PHYSICAL

Temperature Range	0 to 45° C - Operating, -10 to 70 ° C - Storage
Humidity (non-condensing)	15% ~ 95% typical
Dimensions	167mm (L) x 108mm (W) x 25mm (H)
Weight	275g