

ESR-9750G is a 11N Gigabit Broadband Router that delivers up to 6x faster speeds and 3x extended coverage than 802.11g devices. ESR-9750G 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 10/100/1000 Gigabit 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.

Key Features

- Green Ethernet mode (Power saving up to 50%)
- Four Operation Mode support– AP / AP-Client / Universal Repeater / WDS
- QoS
- Speed and Bandwidth monitoring
- Firmware recovery
- Best channel selection

Package Content

- 1* 802.11n Gigabit Router (ESR-9750G)
- 1* 12V/1A Power Adapter
- 3* 2dBi 2.4GHz detachable Antennas
- 1*QIG
- 1*CD (User's Manual)

HARDWARE SPECIFICATION	
Gigabit switch	Power saving RTL8366 (Green Ethernet)
Expansion Slots	N/A
PCB dimension	150mm * 100mm
Physical Interface	WAN: One 10/100/1000 Gigabit Ethernet RJ-45 LAN: Four 10/100/1000 Gigabit 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	Power/ Status WAN (Internet connection)

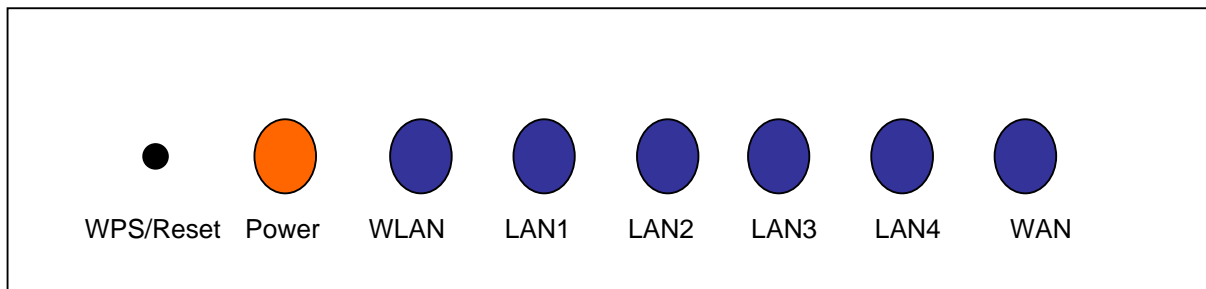
* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

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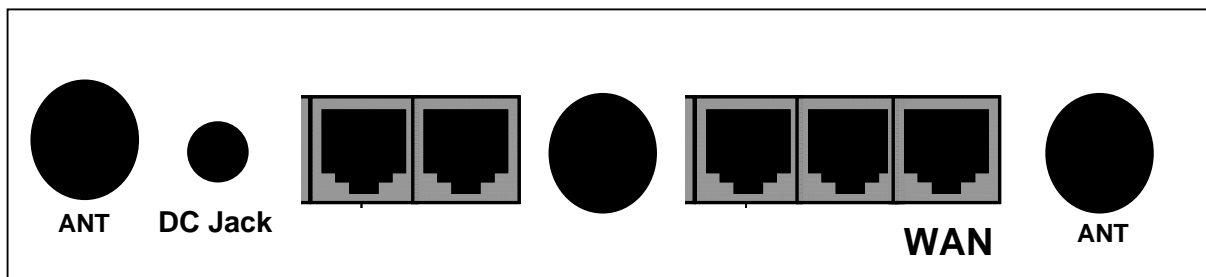
	LAN1~LAN4 (10/100/1000Mbps) WLAN (Wireless Connection)
Power Requirements	Power Supply: 200 to 240 VDC \pm 10% (ETSI) <ul style="list-style-type: none"> 100 to 120 VDC \pm 10% (FCC) Device: 12V/1A

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)



Rear Panel (Interface)



RF SPECIFICATION

Frequency Band	2.400~2.484 GHz
Modulation Technology	OFDM: BPSK, QPSK, 16-QAM, 64-QAM

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	DBPSK, DQPSK, CCK																																																																																									
Operating Channels	<p>Operation Mode – AP / AP-Client / Universal Repeater / WDS</p> <p>Wireless Mode – 11b/ 11g /11n</p> <p>Channel Selection (Setting varies by Country)</p> <p>Channel Bandwidth (Auto, 20Mhz, 40Mhz)</p> <p>Transmission Rate</p> <ul style="list-style-type: none"> -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps <table border="1"> <thead> <tr> <th rowspan="2">MCS index</th> <th colspan="2">Guard Interval 800ns</th> <th colspan="2">Guard Interval 400ns</th> </tr> <tr> <th>20MHz(Mbps)</th> <th>40MHz(Mbps)</th> <th>20MHz(Mbps)</th> <th>40MHz(Mbps)</th> </tr> </thead> <tbody> <tr><td>0</td><td>6.5</td><td>13.5</td><td>7.2</td><td>15</td></tr> <tr><td>1</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr> <tr><td>2</td><td>19.5</td><td>40.5</td><td>21.7</td><td>45</td></tr> <tr><td>3</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>4</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>5</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>6</td><td>58.5</td><td>121.5</td><td>65</td><td>135</td></tr> <tr><td>7</td><td>65</td><td>135</td><td>72.2</td><td>157.5</td></tr> <tr><td>8</td><td>13</td><td>27</td><td>14.4</td><td>30</td></tr> <tr><td>9</td><td>26</td><td>54</td><td>28.9</td><td>60</td></tr> <tr><td>10</td><td>39</td><td>81</td><td>43.3</td><td>90</td></tr> <tr><td>11</td><td>52</td><td>108</td><td>57.8</td><td>120</td></tr> <tr><td>12</td><td>78</td><td>162</td><td>86.7</td><td>180</td></tr> <tr><td>13</td><td>104</td><td>216</td><td>115.6</td><td>240</td></tr> <tr><td>14</td><td>117</td><td>243</td><td>130</td><td>270</td></tr> <tr><td>15</td><td>130</td><td>270</td><td>144.4</td><td>300</td></tr> </tbody> </table>	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)	<p>IEEE802.11n(3RX)</p> <ul style="list-style-type: none"> MCS0/8 @ -91dBm MCS7/15 @ -74dBm <p>IEEE802.11g (3RX)</p> <ul style="list-style-type: none"> 6Mbps@ -92dBm 54Mbps@ -75dBm <p>IEEE802.11b (1RX)</p> <ul style="list-style-type: none"> 1Mbps@ -93dBm 11Mbps@ -91dBm 																																																																																									
Available transmit power	<p>IEEE802.11N</p> <ul style="list-style-type: none"> MCS 0~15@ >16dBm <p>IEEE802.11g</p>																																																																																									

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	<ul style="list-style-type: none"> 6~54 Mbps@ 16dBm <p>IEEE802.11b</p> <ul style="list-style-type: none"> 1, 11Mbps@ 19dBm
Antenna *2	<p>Peak Gain = 2 dBi</p> <p>Average Gain = 1.08 dBi (@ 2.45GHz, H-Plan)</p>

SOFTWARE SPECIFICATIONS

Router and Gateway

Topology	Infrastructure
Operation Mode	Router
LAN	<p>DHCP Server</p> <p>Static Routing Table</p> <p>UPNP</p>
WAN	<p>PPTP</p> <p>PPPoE</p> <p>Static IP</p> <p>DHCP Client</p> <p>Clone MAC</p>
Router	<p>NAT/ NATP</p> <p>Static Routing</p> <p>Dynamic Route</p> <p>Virtual server mapping</p> <p>IP address mapping</p> <p>Port Forwarding</p> <p>Port Triggering</p> <p>Special application</p> <p>ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)</p> <p>DNS Relay</p> <p>DDNS</p> <p>Time Zone(NTP client)</p>
Firewall	<p>Blocking Ping</p> <p>DoS(Blocking Ping, Port scan, Sync Flood)</p> <p>MAC / IP Filtering</p> <p>ICMP Blocking</p> <p>SPI (Stateful Packet Inspection)</p> <p>DMZ (Demilitarized Zone) Host</p> <p>Policy Based Parental Controls</p> <ul style="list-style-type: none"> Port Range / Service Filtering Internet Domain Restriction Dynamic URL Filtering (OEM subscription service)

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VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	Power saving 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
QoS	WMM Rule Based Controls(Protocol, IP, port range) Intelligent Stream Handling/Wireless Intelligent Stream Handling <ul style="list-style-type: none"> • Automatic Traffic Classification & Prioritization • Dynamic Traffic Shaping & Packet Fragmentation • Automatic Configuration

MANAGEMENT	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Upgrade firmware via web-browser
Administrator Setting	Administrator password change Idle time out
Reset Setting	Reboot Reset to Factory Default
System monitoring	Status and Statistics, Time Zone & NTP Client, Event Log,

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

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