

802.11b/g/n SOHO Router

ESR-9752

2.4GHz

300Mbps

11N AP/Router

## PRODUCT DESCRIPTION



ESR-9752 is a 2T2R Wireless Single chip 11N Broadband Router that delivers up to 6x faster speeds and 3x extended coverage than 802.11g devices. ESR-9752 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.

## PACKAGE CONTENT

- 1\* 802.11n SOHO Router (ESR-9752)
- 1\* 12V/1A Power Adapter
- 1\*QIG
- 1\*CD (User's Manual)

\* Theoretical wireless signal rate based on IEEE standard of 802.11 a, 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.

2/3/2009

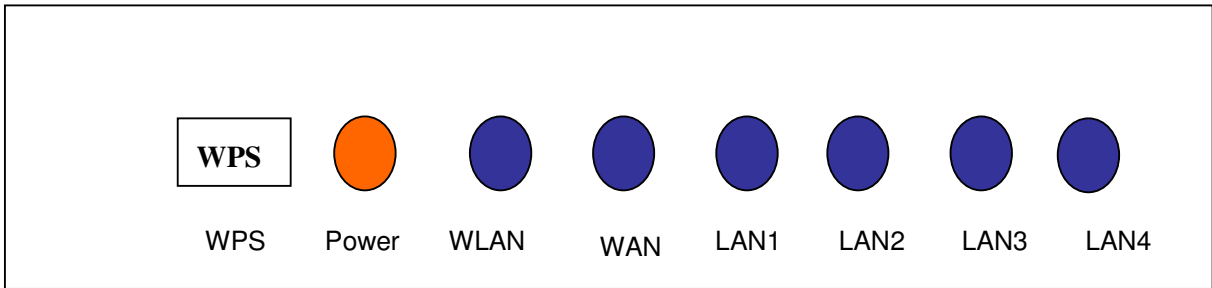
## Technical Specifications

### HARDWARE SPECIFICATIONS

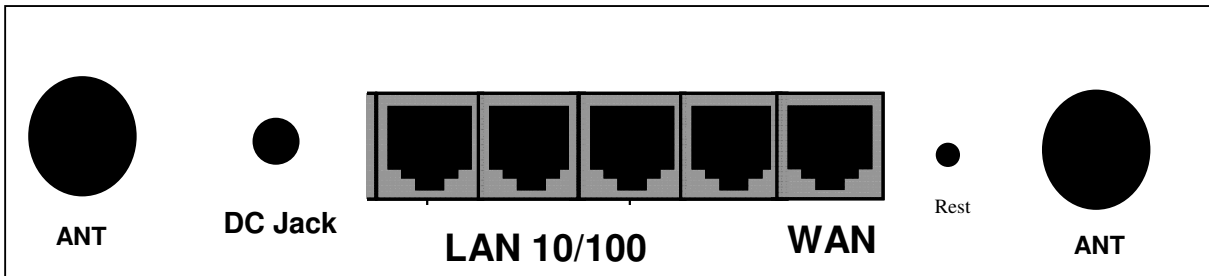
MCU	RT3052, 384MHz embedded RF/MAC/BBP
Memory	32MB SDRAM
Flash	4MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: One 10/100 Fast Ethernet RJ-45 LAN: Four 10/100 Fast Ethernet RJ-45 Rest button Power Jack WPS (WiFi Protected Setup)
LEDs Status	Power Status WAN (Internet connection) 10/100Mbps LAN1~LAN4 WLAN(Wireless connection)
Power Requirements	Power Supply: 200 to 240 VDC $\pm$ 10% (ETSI) 100 to 120 VDC $\pm$ 10% (FCC) Device: 12V/1A

#### ➤ Top 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	<ul style="list-style-type: none"> <li>● OFDM: BPSK, QPSK, 16-QAM, 64-QAM</li> <li>● DBPSK, DQPSK, CCK</li> </ul>
Operating Channels	11 for North America, 14 for Japan, 13 for Europe

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<p>Wireless Setting</p>	<ul style="list-style-type: none"> <li>● Wireless Mode – 11b/ 11g /11n</li> <li>● Channel Selection (Setting varies by Country)</li> <li>● Channel Bandwidth (Auto, 20Mhz, 40Mhz)</li> <li>● Transmission Rate <ul style="list-style-type: none"> <li>-11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps</li> </ul> </li> </ul> <table border="1" data-bbox="462 447 1409 1276"> <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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<p>Receive Sensitivity (Typical)</p>	<ul style="list-style-type: none"> <li>● IEEE802.11n(2RX) <ul style="list-style-type: none"> <li>MCS0/8 @ -91dBm</li> <li>MCS7/15@ -74dBm</li> </ul> </li> <li>● IEEE802.11g (2RX) <ul style="list-style-type: none"> <li>6Mbps@ -92dBm</li> <li>54Mbps@ -75dBm</li> </ul> </li> <li>● IEEE802.11b (1RX) <ul style="list-style-type: none"> <li>1Mbps@ -93dBm</li> <li>11Mbps@ -91dBm</li> </ul> </li> </ul>																																																																																									

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Available transmit power	<ul style="list-style-type: none"> <li>● IEEE802.11N MCS 0~15@ &gt;16dBm</li> <li>● IEEE802.11g 6~54 Mbps@ 16dBm</li> <li>● IEEE802.11b 1, 11Mbps@ 19dBm</li> </ul>
Antenna *2	Peak Gain = 2 dBi

## SOFTWARE FEATURES

### ➤ Router and Gateway

Topology	Infrastructure
Operation Mode	AP/Router
LAN	<ul style="list-style-type: none"> <li>•DHCP Server</li> <li>•Static Routing Table</li> <li>•UPNP</li> </ul>
WAN	<ul style="list-style-type: none"> <li>•PPTP</li> <li>•PPPoE</li> <li>•Static IP</li> <li>•DHCP Client</li> <li>•Clone MAC</li> </ul>
Router	<ul style="list-style-type: none"> <li>•NAT/ NAPT</li> <li>•Static Routing</li> <li>•Dynamic Route</li> <li>•Virtual server mapping</li> <li>•IP address mapping</li> <li>•Port Forwarding</li> <li>•Port Triggering</li> <li>•Special application</li> <li>•ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)</li> <li>•DNS Relay</li> <li>•DDNS</li> <li>•Time Zone(NTP client)</li> </ul>

Firewall	<ul style="list-style-type: none"> <li>•Blocking Ping</li> <li>•DoS(Blocking Ping, Port scan, Sync Flood)</li> <li>•MAC / IP Filtering</li> <li>•ICMP Blocking</li> <li>•SPI (Stateful Packet Inspection)</li> <li>•DMZ (Demilitarized Zone) Host</li> <li>•Policy Based Parental Controls <ul style="list-style-type: none"> <li>➢ Port Range / Service Filtering</li> <li>➢ Internet Domain Restriction</li> <li>➢ Dynamic URL Filtering (OEM subscription service)</li> </ul> </li> </ul>
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> <li>•<b>Power saving(Green technology)</b></li> <li>•64/128 bit WEP Encryption</li> <li>•WPA Personal (WPA-PSK using TKIP or AES)</li> <li>•WPA Enterprise (WPA-EAP using TKIP)</li> <li>•802.1x Authenticator</li> <li>•Hide SSID in beacons</li> <li>•Wi-Fi Protection Setup (WPS)</li> <li>•WDS</li> <li>•ACL control</li> <li>•Best channel selection</li> <li>•Speed/Bandwidth monitor</li> </ul>
QoS	<ul style="list-style-type: none"> <li>•WMM</li> <li>•Application base <ul style="list-style-type: none"> <li>➢ Priority Queue</li> <li>➢ Bandwidth Allocation</li> </ul> </li> </ul>

➢ **Management**

Configuration	Web-based configuration (HTTP)
Firmware Upgrade	<ul style="list-style-type: none"> <li>• Via webpage upgrade</li> <li>• Auto recovery once firmware upgrade fail</li> </ul>
Administrator	<ul style="list-style-type: none"> <li>•Administrator password change</li> <li>• Idle time out</li> </ul>

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Setting	
Reset Setting	<ul style="list-style-type: none"> <li>• Reboot</li> <li>• Reset to Factory Default</li> </ul>
System monitoring	<ul style="list-style-type: none"> <li>• Speed and Bandwidth monitoring</li> </ul>
Scheduling	<ul style="list-style-type: none"> <li>• Enable Firewall</li> <li>• Enable power saving</li> </ul>
Easy access	<ul style="list-style-type: none"> <li>• User can type model name and access the main page.</li> </ul>
Install wizard	<ul style="list-style-type: none"> <li>• Guide user to set-up Router smoothly</li> </ul>

## ENVIRONMENT & PHYSICAL

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)