

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)

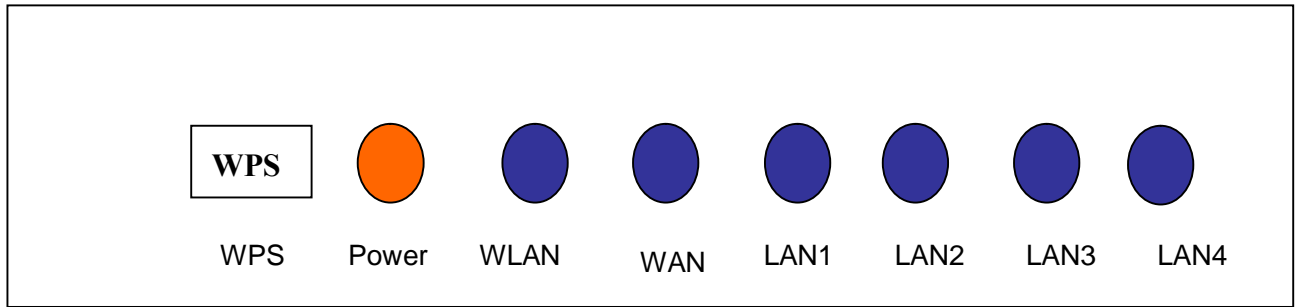
Technical Specifications

HARDWARE SPECIFICATIONS

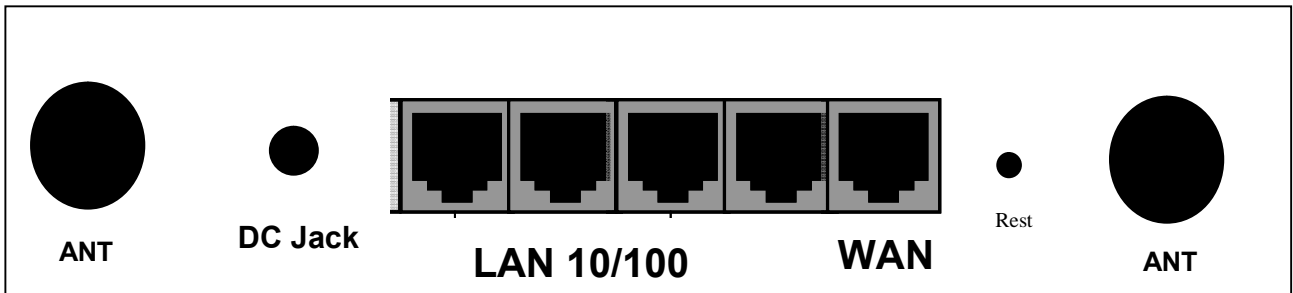
MCU	RT3052, 384MHz embedded RF/MAC/BBP
Memory	32MB SDRAM
Flash	4MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: One 10/100 Fast Ethernet RJ-45 LAN: Four 10/100 Fast Ethernet RJ-45 Rest button Power Jack WPS (WiFi Protected Setup)
LEDs Status	Power Status WAN (Internet connection) 10/100Mbps LAN1~LAN4 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"> ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DBPSK, DQPSK, CCK
Operating Channels	11 for North America, 14 for Japan, 13 for Europe

* 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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<p>Wireless Setting</p>	<ul style="list-style-type: none"> ● Wireless Mode . 11b/ 11g /11n ● Channel Selection (Setting varies by Country) ● Channel Bandwidth (Auto, 20Mhz, 40Mhz) ● Transmission Rate <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" data-bbox="416 477 1442 1361"> <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"> ● IEEE802.11n(2RX) <ul style="list-style-type: none"> MCS0/8 @ -91dBm MCS7/15@ -74dBm ● IEEE802.11g (2RX) <ul style="list-style-type: none"> 6Mbps@ -92dBm 54Mbps@ -75dBm ● IEEE802.11b (1RX) <ul style="list-style-type: none"> 1Mbps@ -93dBm 11Mbps@ -91dBm 																																																																																									

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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

SOFTWARE FEATURES

➤ Router and Gateway

Topology	Infrastructure
Operation Mode	AP/Router
LAN	<ul style="list-style-type: none"> ●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) •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 ➢ URL Filtering
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	<ul style="list-style-type: none"> •Power saving(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 •Application base <ul style="list-style-type: none"> ➢ Priority Queue ➢ Bandwidth Allocation

➢ **Management**

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

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Setting	
Reset Setting	<ul style="list-style-type: none"> • Reboot • Reset to Factory Default
System monitoring	<ul style="list-style-type: none"> • 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"> • Guide user to set-up Router smoothly

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)