

ESR9752

802.11b/g/n SOHO Router

- 2.4 GHz
- 300Mbps
- 11N AP/Router



PRODUCT DESCRIPTION

ESR9752 is a 2T2R Wireless Single chip 11N Broadband Router that delivers up to 6x faster speeds and 3x extended coverage than 802.11g devices. ESR9752 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)

ESR-9752 Datasheet Version 1722009

* Theoretical wireless signal rate based on IEEE standard of 802.11b, 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

SOHO WIRELESS ROUTER
ESR9752

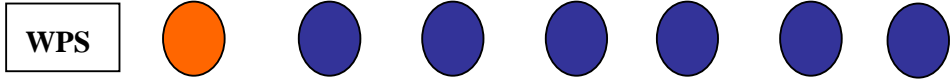
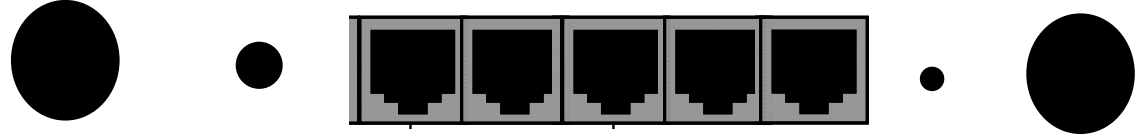
TECHNICAL SPECIFICATIONS	
> HARDWARE SPECIFICATIONS	
MCU	RT3052, 384MHz embedded RF/MAC/BBP
Memory 3	2MB SDRAM
Flash	4MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: One 10/100 Fast Ethernet RJ-45
	LAN: Four 10/100 Fast Ethernet RJ-45
	Rest button
	Power Jack
	WPS (WiFi Protected Setup)
LEDs Status	Power Status
	WAN (Internet connection)
	10/100Mbps LAN1~LAN4
	WLAN(Wireless connection)
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)
	Device: 12V/1A

RF SPECIFICATION																																																																																													
Frequency Band	2.400 ~ 2.484 GHz																																																																																												
Modulation Technology	<ul style="list-style-type: none"> ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM ● DB PSK, DQPSK, CCK 																																																																																												
Operating Channels	11 for North America, 14 for Japan, 13 for Europe																																																																																												
Wireless Setting	<ul style="list-style-type: none"> ● 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 <table border="1" data-bbox="488 797 1374 1435"> <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) 4</th> <th>0MHz(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) 4	0MHz(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"> ● IEE E802.11n(2RX) MCS0/8 @ -91dBm MCS7/15@ -74dBm ● IEEE802.1 1g (2RX) 6Mbps@ -92dBm 54Mbps@ -75dBm ● IEEE802.1 1b (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

SOFTWARE FEATURES	
> Router and Gateway	
Topology I	Infrastructure
Operation Mode	AP/Router
LAN	<input type="checkbox"/> DHCP Server <input type="checkbox"/> Static Routing Table <input type="checkbox"/> UPNP
WAN	<input type="checkbox"/> PPTP <input type="checkbox"/> PPPoE <input type="checkbox"/> Static IP <input type="checkbox"/> DHCP Client <input type="checkbox"/> Clone MAC
Router	<input type="checkbox"/> NAT/ NATP <input type="checkbox"/> Static Routing <input type="checkbox"/> Dynamic Route <input type="checkbox"/> Virtual server mapping <input type="checkbox"/> IP address mapping <input type="checkbox"/> Port Forwarding <input type="checkbox"/> Port Triggering <input type="checkbox"/> Special application <input type="checkbox"/> ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP) <input type="checkbox"/> DNS Relay <input type="checkbox"/> DDNS <input type="checkbox"/> Time Zone(NTP client)
Firewall	<input type="checkbox"/> Blocking Ping <input type="checkbox"/> DoS(Blocking Ping, Port scan, Sync Flood) <input type="checkbox"/> MAC / IP Filtering <input type="checkbox"/> ICMP Blocking

	<input type="checkbox"/> SPI (Stateful Packet Inspection) <input type="checkbox"/> DMZ (Demilitarized Zone) Host <input type="checkbox"/> 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	<input type="checkbox"/> Power saving(Green technology) <input type="checkbox"/> 64/128 bit WEP Encryption <input type="checkbox"/> WPA Personal (WPA-PSK using TKIP or AES) <input type="checkbox"/> WPA Enterprise (WPA-EAP using TKIP) <input type="checkbox"/> 802.1x Authenticator <input type="checkbox"/> Hide SSID in beacons <input type="checkbox"/> Wi-Fi Protection Setup (WPS) <input type="checkbox"/> WDS <input type="checkbox"/> ACL control <input type="checkbox"/> Best channel selection <input type="checkbox"/> Speed/Bandwidth monitor
QoS	<input type="checkbox"/> WMM <input type="checkbox"/> Application base <ul style="list-style-type: none"> ➢ P riority Queue ➢ B andwidth Allocation
> Management	
Configuration	Web-based configuration (HTTP)
Firmware Upgrade	- Via webpage upgrade - Auto recovery once firmware upgrade fail
Administrator Setting	- Administrator password change - Idle time out
Reset Setting	- Reboot - Reset to Factory Default
System monitoring	Speed and Bandwidth monitoring
Scheduling	- Enable Firewall - Enable power saving
Easy access	User can type model name and access the main page.
Install wizard	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)
> Top Panel (LED status)	
	
	WPS Power WLAN WAN LAN1 LAN2 LAN3 LAN4
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)	
	
	ANT DC Jack LAN 10/100 WAN Reset ANT