

ESR-9753

802.11b/g/n SOHO Router

- 2.4 GHz
- 150Mbps
- 11N Router/AP

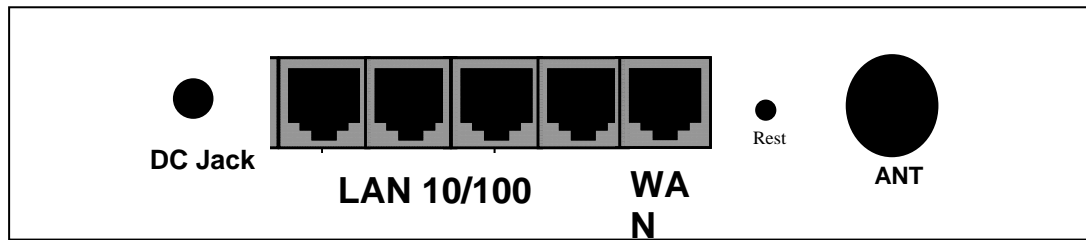


PRODUCT OVERVIEW

ESR-9753 is a 1T1R Wireless Single chip 11N Broadband Router that delivers up to 3x faster speeds than 802.11g devices. ESR-9753 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 Specification	
MCU	RTL8196C+8188RE
Memory	16MB SDRAM
Flash	2MB
PCB dimension	100mm * 90mm
Physical Interface	WAN: 1 x 10/100 Fast Ethernet RJ-45
	LAN: 4 x 10/100 Fast Ethernet RJ-45
	Rest button
	Power Jack
	WPS (WiFi Protected Setup)
Power Requirements	Power Supply: 200 to 240 VDC ± 10% (ETSI) 100 to 120 VDC ± 10% (FCC)
	Device: 5V/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)	
<p>WPS Power WLAN WAN LAN1 LAN2 LAN3 LAN4</p>	



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																																																				
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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" style="width: 100%; border-collapse: collapse;"> <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> </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
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Receive Sensitivity (Typical)	<ul style="list-style-type: none"> ● IEEE802.11n MCS0@ -91dBm MCS7@ -74dBm ● IEEE802.11g 6Mbps@ -90dBm 54Mbps@ -70dBm ● IEEE802.11b 1Mbps@ -90dBm 11Mbps@ -87dBm 																																																				

Available transmit power	<ul style="list-style-type: none"> ● IEEE802.11N MCS7@ 15dBm ● IEEE802.11g 6~54 Mbps@ 15dBm ● IEEE802.11b 1, 11Mbps@ 16dBm
Antenna *1	Peak Gain = 2 dBi with SMA connector

SOFTWARE FEATURES	
Router & 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/ NATP • 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 ➤ Dynamic URL Filtering (OEM subscription service)
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 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	<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 AND 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)

PACKAGE CONTENT
▶ 802.11n SOHO Router (ESR9753)
▶ 12V/1A Power Adapter
▶ CD with User's Manual
▶ QIG
▶ 1*SMA Antenna