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# 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.

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

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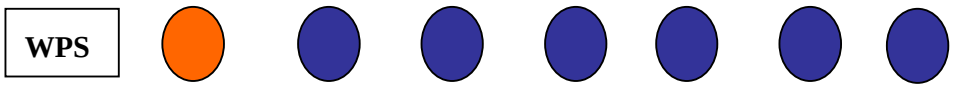
## TECHNICAL SPECIFICATIONS

### > 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% (F CC) |
| | Device: 12V/1A |

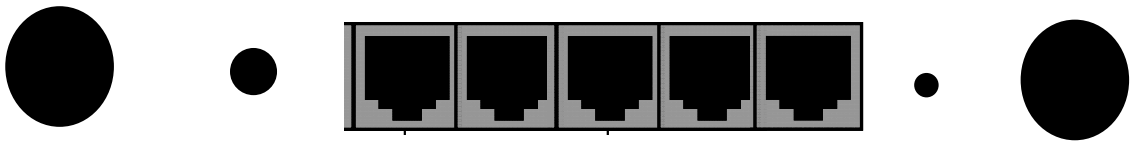
**> Top Panel (LED status)**




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



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## RF SPECIFICATION

| | |
|---|---|
| Frequency Band | 2.400 ~ 2.484 GHz |
| Modulation Technology | ● OFDM: BPSK, QPSK, 16-QAM, 64-QAM<br>● DB PSK, DQPSK, CCK |
| Operating Channels | 11 for North America, 14 for Japan, 13 for Europe |
| Wireless Setting | ● Wireless Mode – 11b/ 11g /11n<br>● Channel Selection (Setting varies by Country)<br>● Channel Bandwidth (Auto, 20Mhz, 40Mhz)<br>● Transmission Rate: -11g: Best. 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps |
| Receive Sensitivity (Typical) | ● IEE E802.11n(2RX)<br>MCS0/8 @ -91dBm<br>MCS7/15@ -74dBm<br>● IEEE802.1 1g (2RX)<br>6Mbps@ -92dBm<br>54Mbps@ -75dBm<br>● IEEE802.1 1b (1RX)<br>1Mbps@ -93dBm<br>11Mbps@ -91dBm |

| 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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| | |
|---|---|
| Available transmit power | ● IEEE802 .11N<br>MCS 0~15@ >16dBm<br>● IEEE802 .11g<br>6~54 Mbps@ 16dBm<br>● IEEE802 .11b<br>1, 11Mbps@ 19dBm |
| Antenna *2 | Peak Gain = 2 dBi |

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



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| | |
|---|---|
| | □SPI (Stateful Packet Inspection)<br>□DMZ (Demilitarized Zone) Host<br>□Policy Based Parental Controls<br>➢ Port Range / Service Filtering<br>➢ Internet Domain Restriction<br>➢ Dynamic URL Filtering (OEM subscription service) |
| VPN | VPN pass-through (PPTP, L2TP, IPSEC) |
| Wireless | □**Power saving(Green technology)**<br>□64/128 bit WEP Encryption<br>□WPA Personal (WPA-PSK using TKIP or AES)<br>□WPA Enterprise (WPA-EAP using TKIP)<br>□802.1x Authenticator<br>□Hide SSID in beacons<br>□Wi-Fi Protection Setup (WPS)<br>□WDS<br>□ACL control<br>□Best channel selection<br>□Speed/Bandwidth monitor |
| QoS | □WMM<br>□Application base<br>➢ P riority Queue<br>➢ B andwidth Allocation |
| **> Management** | |
| Configuration | Web-based configuration (HTTP) |
| Firmware Upgrade | - Via webpage upgrade<br>- Auto recovery once firmware upgrade fail |
| Administr ator Setting | - Administrator password change<br>- Idle time out |
| Reset Setting | - Reboot<br>- Reset to Factory Default |
| System monitoring | Speed and Bandwidth monitoring |
| Scheduling | - Enable Firewall<br>- Enable power saving |
| Easy access | User can type model name and access the main page. |
| Install wizard | Guide user to set-up Router smoothly |



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| 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) |

| PACKAGE CONTENT |
|---|
| ► 1 x 802.11N SOHO Router (ESR9752) |
| ► 1 x Power Adaptor (12V/1A) |
| ► 1 x CD with User's Manual |
| ► 1 x QIG |


Contact

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