



## 802.11n Gigabit Router ESR-9710

Create your own wireless network with the EnGenius ESR9710. The ESR-9710 is a draft 802.11n compliant device that delivers up to 6x faster speeds than 802.11g while staying backward compatible with 802.11b/g devices. For ethernet devices, the ESR-9710 also has a 4-port full-duplex 10/100/1000 Gigabit Switch. The Router function ties it all together and lets your whole network share a high-speed cable or DSL Internet connection for gaming and multimedia downloads.

## Specifications

### Features:

- **High Speed Wireless Data Rate Up to 300Mbps**
- **IEEE 802.11n draft Compliant and backward compatible with 802.11b/g**
- **Four built-in 10/100/1000Mbps Gigabit Switch Ports (Auto MDX/MDIX)**
- **Supports DNS/ DDNS**
- **Supports 802.1x authenticator, 802.11i (WPA/WPA2, AES), VPN pass-thru mechanisms**
- **Universal Plug and Play (UPnP™)**

### RF Information:

- **Frequency Band:**  
2.400~2.484 GHz
- **Media Access Protocol**  
Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- **Modulation Technology**  
OFDM: BPSK, QPSK, 16-QAM, 64-QAM  
DBPSK, DQPSK, CCK
- **Operating Channels:**  
11 for North America, 14 for Japan, 13 for Europe
- **Receive Sensitivity (Typical):**  
2.412~2.472G (IEEE802.11b) (1Rx)  
-93dBm @ 1Mbps  
-91dBm @ 11Mbps  
2.412~2.472G (IEEE802.11g) (2Rx)  
-92dBm @ 6Mbps  
-79dBm @ 54Mbps  
2.412~2.472G (IEEE802.11n) (2Rx)  
-90 dBm MCS 8  
-70 dBm MCS 15
- **Available Transmit Power (Typical):**  
2.412~2.472G (IEEE802.11b)  
19dBm @1~11Mbps  
2.412~2.472G (IEEE802.11g)  
19 dBm @6Mbps  
16 dBm @54Mbps  
2.412~2.472G (IEEE802.11N)  
20 dBm MCS 8  
16 dBm MCS 15
- **Antenna Connector:**  
Reverse Polarity SMA
- **Antenna Gain:**  
Peak Gain = 2 dBi  
Average Gain = 1.08 dBi (@ 2.45GHz, H-Plan)

### Physical:

- **Dimensions:**  
167mm (L) x 108mm (W) x 25mm (H)
- **Temperature Range:**  
Operating: -0°C to 50°C (32F to 122F)  
Storage: -40°C to 70°C (-40F to 158F)
- **Humidity (Non-condensing):**  
5%~95% Typical

### Networking:

- **Topology:**  
Infrastructure
- **Operation Mode:**  
AP/Router
- **Interface:**  
LAN: Four 10/100/1000Mbps Ethernet (RJ-45)  
WAN: One 10/100Mbps Ethernet (RJ-45)  
WLAN: 802.11b/g/n
- **Security:**  
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)  
Auto Channel Selection
- **Router:**  
NAT/ NATP  
Static Routing- RIPv2  
Dynamic Route  
Virtual server mapping  
IP address mapping  
Port Forwarding / Triggering  
MAC address Filtering  
ALG(Application Layer Gateway) support (RTP/RTSP, AOL, FTP, ICMP, WMP/MMS, NetMeeting, SIP)
- **Firewall:**  
Blocking Ping  
ICMP Blocking  
SPI (Stateful Packet Inspection)  
Rule Based (IP Address Ranges, Port Ranges & Schedule)  
DMZ (Demilitarized Zone) Host  
Policy Based Parental Controls
- **VPN Pass Through:**  
PPTP, L2TP, IPSEC
- **QoS**  
WMM  
Intelligent Stream Handling  
Automatic Traffic Classification & Prioritization  
Dynamic Traffic Shaping & Packet Fragmentation  
Automatic Configuration
- **Management:**  
Web-based configuration (HTTP)
- **Firmware Upgrade:**  
Upload Firmware Via Web-browser
- **System Monitoring:**  
Status and Statistics, Time Zone & NTP Client, Event Log, Email Alarm



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