



Wireless SOHO Router ESR-1220

Create your own wireless network with the EnGenius ESR-1220. Connect the ESR-1220 to a broadband modem and wirelessly share your high-speed Internet connection. Enjoy surfing the web, checking e-mail, and chatting with family and friends online. Supports the 802.11g standard and is backward compatible with 802.11b, ensuring compatibility with a wide range of wireless devices. It also includes four Ethernet ports so you can connect Ethernet-enabled PCs and devices.

Specifications

Standards:

- **Network:**
IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u
- **Wi-Fi Data Speed:**
IEEE 802.11b: 11/5.5/2/1Mbps
IEEE 802.11g: 54/48/36/24/18/12/9/6Mbps
- **Power Requirements:**
Power Supply: 90 to 240 VDC±10
(depends on different countries)
Device: 12 V/ 1.3A
- **Status LEDs**
4*LAN : Link/Activity
WLAN : Link/Activity
Power : On/Off
Internet : On/Off/Activity
- **Regulation Certifications**
FCC Part 15/UL, ETSI 300/328/CE
- **Forwarding Rate:**
10Mbps- 14,880pps
100Mbps- 148,809pps
1000Mbps -1,488,095pps

RF Information:

- **Frequency Band:**
2.400-2.497GHz (Japan Band)
2.400-2.483GHz (North America, Europe Band)
2.455-2.475GHz (Spain Band)
2.446-2.483GHz (France Band)
- **Media Access Protocol**
Carrier Sense Multiple Access with Collision Avoidance (CSMA/CA)
- **Modulation Technology**
Orthogonal Frequency
Division Multiplexing (OFDM)
DBPSK @ 1Mbps
DQPSK @2Mbps
CCK @ 5.5 & 11Mbps
BPSK @ 6 and 9 Mbps
QPSK @ 12 and 18 Mbps
16-QAM @ 24 and 36 Mbps
64-QAM @ 48 and 54 Mbps
- **Operating Channels:**
1-11 for North America
- **Receive Sensitivity (Typical):**
-88dBm @ 1Mbps, -70dBm @ 54Mbps
- **Available Transmit Power (Typical):**
2.412-2.472G(IEEE802.11g)
18+2 dBm min. @6 ~ 54Mbps
2.412-2.472G(IEEE802.11b)
18+2 dBm min. @1~ 11Mbps
- **Antenna Connector:**
Dipole Antenna with Revers Polarity SMA Connector

Networking:

- **Topology:**
Ad-Hoc, Infrastructure
- **Operation Mode:**
AP/Router
- **Interface:**
LAN: Four 10/100Mbps Ethernet (RJ-45)
WAN: One 10/100Mbps Ethernet (RJ-45)
WLAN: 802.11b/g
- **Security:**
IEEE802.1x Authenticator/RADIUS Client
(EAPMD5/TLS/TTLS) Support in AP Mode
MAC address filtering
Hide SSID
- **Network Protocol:**
NAT/PAT
Internet connection management:
FixedIP/DHCP/PPPoE/PPTP
DHCP (server/client)
Static route, RIP1/2
HTTP
UPnP
DDNS (Dynamic DNS)
PPTP/L2TP/IPsec (pass-thru)
- **Management:**
Web-based Configuration (HTTP)
- **Firmware Upgrade:**
Upload Firmware Via Web-browser

Physical:

- **Dimensions (H x W x D)**
16x10x4cm
- **Temperature Range:**
Operating: -10°C to 50°C (14F to 122F)
Storage: -40°C to 70°C (-40F to 158F)
- **Humidity (Non-condensing):**
5%~95% Typical
- **Package Contents:**
Device unit
Power Adapter
One CAT5 UTP Cable
One CD-ROM with User
Manual
- **System Requirement:**
WAN: Broadband (cable, DSL)
Internet Service and Modem with Ethernet Connection
LAN: 2.4 GHz 802.11 b/g Wireless Adapter. Alternatively, an Ethernet Adapter and Cable for Each Computer



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