

ESR -1220 is a 2.4GHz 802.11b/g broadband WiFi router. With leading edge SoC (System-on-Chip) technology, broadband subscribers will experience lightning speed Internet access, easy local connectivity, and rich software application and secure network protection. Namely, it is most suited for SOHO users wishing to make best use of their broadband service.



Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices with legacy protection
NAT Router	Multiple computer Internet Access, also act as natural firewall
WEP/WPA/WPA2/ IEEE 802.1x support	Securing network from malicious access
Hide SSID	Avoid free-rider stealing your bandwidth
DHCP	Simplify network configuration and management
MAC address filtering	Ensures secure network connection
UPnP(Universal Plug and Play)	Friendly to special application e.g. instant messenger, VoIP
Port forwarding	Set up application server (FTP, Web, Email, ...) on LAN
Access control	WLAN/LAN-to-WAN access control (allow/disallow), prevent users from access unwanted content
Firewall with SPI (Stateful Packet Inspection)	Prevent malicious access from Internet
DoS (Denial of Service) protection	Prevent from well-known DoS attack
Built-in 4-port Switch automatically detects cable type	Easy local connectivity
Web-based configuration	Simple and intuitive network management
Firmware change via the Web-based configuration screen	Allow easy upgrade/restore/dump system configuration via web interface
System log	Logging critical event according to network manager's criteria

*** Subject to change without prior notice

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ESR-1220

Wireless SOHO Router



2.4 GHz

802.11 b/g

54 Mbps

Technical Specifications

Standards

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

Compatibility

IEEE 802.11g/ IEEE 802.11b

Power Requirements

Power Supply: 90 to 240 VDC \pm 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

RF INFORMATION

Frequency Band

2.400-2.497GHz (Japan Band)
2.400-2.483GHz (North America,
Europe Band)
2.455-2.475GHz (Spand 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

11 for North America, 14 for Japan,
13 for Europe,

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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. @1~11Mbps

Antenna Connector

Dipole antenna with reverse 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 air interface

Security

- IEEE802.1x Authenticator /RADIUS Client
(EAPMD5/TLS/TTL) Support in AP Mode
- MAC address filtering
- Hide SSID in beacons

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

Upgrade firmware via web-browser

PHYSICAL

Dimensions (HxWxD)

16x10x4cm

ENVIRONMENTAL

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

RELATED PRODUCT(S)

11a/b/g High-power Wireless USB Adapter
EUB-362/362 EXT (802.11b/g)
EUB-862 (802.11a/b/g)
EUB-8301 (802.11a/b/g)
11b High-power Client Bridge
2611CB3+(Deluxe)
Indoor AP-Client
ECB-3220 (802.11b/g)
ECB-8610 (802.11a/b/g)
Outdoor AP-Client
EOC-3220 Series (802.11b/g)
EOC-8610 Series (802.11a/b/g)

Web browser with Java installed (Internet
Explorer5.5 or later, Netscape Navigator6.1
or above, Mozilla Firefox 1.5 and above)

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