ECB–1220R

Wireless Broadband Router/Access Point/Client Bridge/Client Router

2.4 GHz	802.11 b/g	54 Mbps

ECB-1220R is a 2.4GHz 802.11b/g broadband Wi-Fi Router with advanced AP/Client Bridge/Repeater functions. So you could implement this crossover device into three applications: *Access Point, Client Bridge and Router mode*. With leading edge SoC (System-on-Chip) technology, broadband subscribers will experience lightning speed Internet access, easy local connectivity, rich software application and secure network protection.

Features	Benefits
NAT Router	Multiple computer Internet Access, also act as natural firewall
PPPoE function support (CR mode)	Easy to access internet via ISP service authentication
MAC address filtering	Ensures secure network connection
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
UPnP(Universal Plug and Play)	Friendly to special application e.g. MSN or Skype
Access control	WLAN-to-WAN access control (allow/disallow), prevent users from access unwanted content
Firewall	Prevent malicious access from Internet
DoS (Denial of Service) protection	Prevent from well-known DoS attack
Built-in 4-port 10/100 Ethernet Switch	Easy local connectivity
QoS (WMM)	Enhance user performance and density
Firmware upgrade via the Web-based configuration screen	Allow easy upgrade/restore/dump system configuration via web interface
SNMP Remote Configuration Management	Help administrators to remotely configure or manage the Access Point easily.
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
DHCP Client/ Server	Simplifies network administration
Universal Repeater	The easiest way to extend your wireless network's coverage

*** *Subject to change without prior notice*

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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 ±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,

Receive Sensitivity (Typical)

-85dBm @ 6Mbps
-68dBm @ 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

Access Point/Client Bridge/Client Router/Repeater/WDS/Ad-hoc

Interface

LAN: Four 10/100Mbps Ethernet (RJ-45);
WAN: One 10/100Mbps Ethernet (RJ-45);
WLAN: 802.11b/g air interface

Security

- WEP Encryption-64/128 bit
- WPA/WPA2 Encryption
- IEEE802.1x Authenticator /RADIUS Client (EAPMD5/TLS/TTLS) Support in AP Mode
- MAC address filtering
- Hide SSID in beacons
- Port Filtering
- IP Filtering
- MAC Filtering
- L2 isolation
- Wireless STA (Client) connected list
- DoS protection
- DMZ (Demilitarized Zone) Host
- Web Site Filtering

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: 0°C to 50°C (32F to 122F)
Storage: -20°C to 70°C (-4F 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)
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, Mozzila Firefox 1.5 and above)

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