

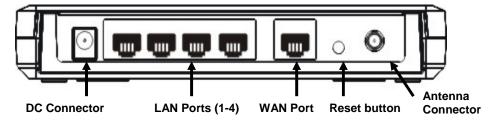
ECB-1220R is a 2.4GHz 802.11b/g broadband Wi-Fi Router with advanced **AP/Client Bridge/Repeater** functions. So you could implement this crossover device into three applications AP, Client Bridge and Router mode. With leading edge SoC (System-on-Chip) technology, broadband subscribers will experience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

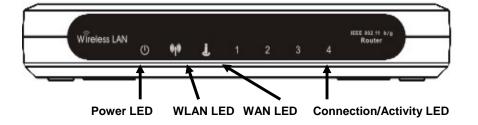


Package Content

- 1* Wireless 802.11b/g Router/Client Bridge (ECB-1220R)
- > 1* 12V/1.25A Power Adapter
- > 1* CAT5 UTP Cable
- > 1*CD (User's Manual)

Mechanical





* Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate.

Features	Benefits	
	lient Router mode	
NAT Router	Multiple computer Internet Access, also act as natural firewall	
PPPoE function support (CR mode)	Easy to access internet via ISP service authentication	
AP/Router mode		
MAC address filtering	Ensures secure network connection	
User isolation support	Protect the private network between client users.	
Hide SSID	Avoids unallowable users sharing bandwidth, increases efficiency of the network	
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	
Port forwarding	Set up application server (FTP, Web, Email,) on LAN	
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 Switch automatically detects cable type	Easy local connectivity	
Port forwarding	Set up application server (FTP, Web, Email,) on LAN	
IAPP	Provide stable communication for roaming client	
QoS (WMM)	Enhance user performance and density	
Generic features		
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices with legacy protection	
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming	

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Remain personal setting during firmware upgrade	Remain latest setting after firmware upgrade
Web-based configuration	Simple and intuitive network management
Firmware upgrade 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
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
Keep personal setting	Keep the latest setting when firmware upgrade

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Technical Specifications

Hardware Specifictions

Hardware Summary

MCU	Realtek RTL8186
Memory	16MB SDRAM
Flash	4MB
Physical Interface	 WAN: One 10/100 Fast Ethernet RJ-45
	LAN: Four 10/100 Fast Ethernet RJ-45
	Reset Button
	Power Jack
	 RF Connector (SMA)
LEDs Status	Power/ Status
	 WAN x1 (10/100Mbps)
	 LAN x4 (10/100Mbps)
	 WLAN (Wireless Connection)
Power	• Power Supply: 90 to 240 VDC ± 10%, 50/60 Hz
Requirements	(depends on different countries)
	• Device: 12V/1.25A
Regulation	 FCC Part 15/UL, ETSI 300/328/CE
Certifications	

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RF Specification

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	6Mbps@ -85dBm
(Typical)	54Mbps@ -68dBm
Available transmit	• IEEE802.11g
power	17 dBm@6~54 Mbps
	• IEEE802.11b
	20 dBm@1 ~ 11Mbps
Antenna	Dipole external antenna (SMA)
	Peak Gain = 2 dBi

Software Features

> Setting

Topology	Infrastructure/Ad-Hoc
Operation Mode	Access Point/Client Bridge/Client Router/Repeater/WDS/Ad-hoc
LAN	DHCP Server
	DHCP Client
	Static IP
WAN	• PPTP
	• PPPoE
	Static IP
	Dynamic IP
	DHCP Client
	DHCP Mapping
	•DNS Relay
Router	•NAT/ NAPT
	• DDNS

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	Static Routing- RIPv2
	•UPnP
	• WAN Ping access
	• Web server access
	•IP address mapping
Firewall	Port Forwarding
	Web Site Filtering
	• DMZ (Demilitarized Zone) Host
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	Wireless Mode – 11b / 11g / Disable
	 Channel Selection (Setting varies by Country)
	Transmission Rate
	11 b/g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps
	Transmit power control
Security	•WEP Encryption-64/128 bit
	 WPA Personal (WPA-PSK using TKIP or AES)
	WPA Enterprise (WPA-EAP using TKIP)
	•802.1x Authenticator
	•Hide SSID in beacons
	Port Filtering
	•IP Filtering
	MAC Filtering
	•L2 isolation
	Wireless STA (Client) connected list
	DoS protection
QoS	• WMM

Management

Configuration	Web-based configuration (HTTP)
Firmware Upgrade	Upgrade firmware via web-browser
	Keep latest setting when f/w update
Administrator Setting	Administrator password change

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Reset Setting	• Reboot
	Reset to Factory Default
System monitoring	Status, Statistics and Event Log
SNMP	V1, V2c
MIB	MIB I, MIB II (RFC1213) and Private MIB
Backup & Restore	Settings through Web

• Environment & Physical

Temperature Range	 Operating: 0°C to 50°C (32°F to 122°F) Storage: -20°C to 70°C (-4°F to 158°F)
Humidity (non-condensing)	5%~95% typical
Dimensions	16x10x4cm
Weight	250g

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