ECB1221R

Wireless Long Range Multi-function Client Bridge

- 2.4 GHz
- EIRP up to 400mW
- Access point
- Client Bridge
- Repeater
- Client Router

PRODUCT DESCRIPTION

ECB1221R is a powerful client bridge. It supports several networking activities of Client Bridge/ Client Router/ Access Point / Repeater operating seamlessly in the 2.4 GHz frequency wireless standards. It's the best way to add wireless capability to your existing wired network, or to add bandwidth to your wireless installation.

With high output power and high gain antenna, it enhances data transmission.. Also, the sensitivity is industrial best which enables the throughput performance keeps at high data rate and farther distance.

To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA/WPA2. The MAC address filter lets you select exactly which stations should have access to your network. User isolation function can protect the private network between client users.

ECB1221R Datasheet Version 04292009

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, b, g, n chipset used. Actual throughput may vary.Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

BUSINESS CLASS
ECB1221R

Learn more about EnGenius Solutions at http://www.engeniustech.com.au/

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
Client Bridge mode Repeater mode	The easiest way to expand your wireless network's coverage
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA2/WPA/ IEEE 802.1x support	Powerful data security
Hide SSID (AP Mode)	Avoids unallowable users sharing bandwidth, increases efficiency of the network
DHCP Client/ Server	Simplifies network administration
WDS (Wireless Distributed System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
MAC address filtering (AP mode)	Ensures secure network connection
User isolation support (AP mode)	Protect the private network between client users.
PPPoE function support (CR mode)	Easy to access internet via ISP service authentication
Keep personal setting	Keep the latest setting when firmware upgrade
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices

ECB1221R Datasheet Version 04292009

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, b, g, n chipset used. Actual throughput may vary.Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

BUSINESS CLASS
ECB1221R

Learn more about EnGenius Solutions at http://www.engeniustech.com.au/

TECHNICAL SPECIFICATION	
> Hardware Specification	
Expansion Slots	N/A
Physical Interface	• LAN: 4 10/100 Fast Ethernet RJ-45 • WAN 1 10/100 Fast-Ethernet RJ-45 • Reset Button • Power Jack • RF Connector (SMA)
LEDs Status	• Power/ Status • LAN (10/100Mbps) • WLAN (Wireless Connection)
Power Requirements	• Power Supply • 200 to 240 VDC ± 10% (ETSI) • 100 to 120 VDC ± 10% (FCC) • Device: 12V/1A
Regulation Certifications	• FCC Part 15, CE
> 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 (Typical)	• IEEE802.11g 6Mbps@ -85dBm 54Mbps@ -68dBm • IEEE802.11b 1Mbps@ -90dBm 11Mbps@ -84dBm
Available transmit power (EIRP)	• IEEE802.11g 17dBm@54Mbps • IEEE802.11b 23dBm@1 ~ 11Mbps
Antenna *1	Detachable dipole antenna SMA type; Peak Gain = 2dBi

BUSINESS CLASS
ECB1221R

SOFTWARE FEATURES	
> Settings	
Topology	Infrastructure/Ad-Hoc
Operation Mode	Access Point/Client Bridge/Repeater/ Client Router
LAN	• DHCP Server • DHCP Client
WAN (Client Router mode)	• PPPoE
Router	NAT/ NAPT
VPN	VPN pass-through (PPTP, L2TP, IPSEC)
Wireless	Wireless Mode – 11b / 11g / Auto • Auto Channel Selection • Transmission Rate ➢ 11 b/g: 108, 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 in Mbps
Security	• WEP Encryption-64/128/152 bit • WPA / WPA2 Personal (WPA-PSK using TKIP or AES) • WPA / WPA2 Enterprise (WPA-EAP using TKIP) • 802.1x Authenticator / Radius Client (AP mode) • MAC address filtering • Hide SSID in beacons • User isolation • NAT in CR mode
QoS	• WMM
> Management	
Configuration	Web-based configuration (HTTP)/Telnet
Firmware Upgrade	• Upgrade firmware via web-browser • Keep latest setting when f/w update
Administrator Setting	Administrator password change
Reset Setting	• Reboot (press 1 second) • Reset to Factory Default (press 5 seconds)
System monitoring	Status, Statistics and Event Log
Backup & Restore	Settings through Web

ECB1221R Datasheet Version 04292009

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, b, g, n chipset used. Actual throughput may vary.Network conditions and environmental
  factors lower actual throughput rate.
** All specifications are subject to change without notice

BUSINESS CLASS
ECB1221R

Learn more about EnGenius Solutions at http://www.engeniustech.com.au/

ENVIRONMENTAL AND PHYSICAL	
Temperature Range	• Operating: 0°C to 45°C (32°F to 113°F) • Storage: -20°C to 70°C (-4°F to 158°F)
Humidity (non-condensing)	5% ~ 95% typical

PACKAGE CONTENT
► 1 x Wireless Long Range Multi-function Client Bridge(ECB1221R)
► 1 x 12V/1A Power Adapter
► 1 x CAT5 UTP Cable
► 1 x CD with User's Manual
► 1 x QIG
► 1 x 2dBi 2.4GHz Dipole Antenna

Contact

E-mail: service@engeniustech.com.au
1300 725 323
1/14 Wellington Street, ACACIA RIDGE QLD 4110 Australia
Check www.engeniustech.com.au for your contact information

ECB1221R Datasheet Version 04292009

*Theoretical wireless signal rate based on IEEE standard of 802.11 a, b, g, n chipset used. Actual throughput may vary.Network conditions and environmental factors lower actual throughput rate.
** All specifications are subject to change without notice

BUSINESS CLASS
ECB1221R

Learn more about EnGenius Solutions at http://www.engeniustech.com.au/