

The Outdoor Wireless Multi-Client Bridge/Access Point/ WDS (wireless distribution system) operates seamlessly in the 2.4 GHz frequency spectrum supporting the 802.11b (2.4GHz, 11Mbps) and the newer, faster 802.11g (2.4GHz, 54Mbps) wireless standards. It is the best way to add wireless capability to your existing wired network, or to add bandwidth to your wireless installation.



To protect your wireless connectivity, it can encrypt all wireless transmissions through 64/128-bit WEP data encryption and also supports WPA. The MAC address filter lets you select exactly which stations should have access to your network. With the Wireless Multi-Client Bridge/Access Point/WDS, you will experience the best wireless connectivity available today.

Features	Benefits
High Speed Data Rate Up to 54Mbps	Capable of handling heavy data payloads such as MPEG video streaming
High Output Power up to 26 dBm	Excellent output power spreads the operation distance
IEEE 802.11b/g Compliant	Fully Interoperable with IEEE 802.11b/IEEE802.11g compliant devices
Point-to-point, Point-to-multipoint Wireless Connectivity	Let users transfer data between two buildings or multiple buildings
WPA/ IEEE 802.1x Authenticator support	Powerful data security
WDS (Wireless Distribution System)	Make wireless AP and Bridge mode simultaneously as a wireless repeater
Watertight and Weatherproof	Avoid water invaded and weather corroded
Wide temperature range and robust mechanical design	Delivers reliable, top performance in the most demanding environments

\*\*\* Subject to change without prior notice

## Technical Specifications

### Data Rates

1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps

### Standards

IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE802.3u

### Compatibility

IEEE 802.11g/ IEEE 802.11b

### Power Requirements

Active Ethernet (802.3af) – 48 VDC/0.35A

### Regulation Certifications

FCC Part 15/UL, ETSI 300/328/CE

## RF INFORMATION

### Frequency Band

2.400~2.484 GHz

### 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, 2 for Spain, 4 for France

### Receive Sensitivity (Typical)

-72dBm @ 54Mbps

### Available transmit power

#### (Typical)

25dBm @1, 2, 5.5 and 11Mbps  
 23dBm@6, 9, 12and 18Mbps  
 22dBm@24, 36Mbps  
 21dBm@48, 54Mbps

### Antenna

9dBi Internal

### RF Connector

SMA Type (Option)

## NETWORKING

### Topology

Ad-Hoc, Infrastructure

### Operation Mode

Point-to-Point/ Point-to-Multipoint Bridge/ AP/ Client Bridge/ WDS

### Interface

One 10/100Mbps RJ-45 LAN Port

### Security

IEEE802.1x authenticator / RADIUS client (EAP-MD5/TLS/TTLS) support in AP mode  
 WPA / Pre Share KEY (PSK)/ TKIP  
 MAC address filtering  
 Hide SSID in beacons  
 Layer 2 Isolation

### IP Auto-configuration

DHCP client/server

## MANAGEMENT

### Configuration

Web-based configuration (HTTP)  
 SNMP V1, V2c (MIBI, MIBII)

### Firmware Upgrade

Upgrade firmware via web-browser

## PHYSICAL

### Dimensions

163.8(L)mm \* 135.2(W)mm \* 47.0(H)mm

### Weight

1.2 Kg (2.6 lbs)

## ENVIRONMENTAL

### Temperature Range

Operating: -10°C to 50°C (14°F to 122°F) for DC in -10°C to 40°C (14°F to 104°F) for POE power supply.  
 Storage: -40°C to 70°C (-40°F to 158°F)

### Humidity (non-condensing)

5%~95% Typical

## PACKAGE CONTENTS

- Outdoor Wireless Client Bridge unit
- 48V / 0.375A AC/DC adapter with wall-plug power code
- Inline Power Injector (PoE)
- 1.8m Grounding Cable
- User's manual CD-ROM
- Wall mounting kit
- Mast mounting kit
- Waterproof kit

## RELATED PRODUCT(S)

- 11a/b/g Wireless Cardbus Adapter 3054CB+ (802.11g)
- 3054CB+ Aries2 (802.11g)
- SPC-362 (802.11g)
- 5354CB+ Aries2 (802.11a/b/g)
- 11a/b/g High-power Wireless USB Adapter
- NUB-362 (802.11b/g)
- NUB-862 (802.11a/b/g)
- NUB-8310 (802.11a/b/g)
- 11b High-power Wireless Cardbus Adapter
- 2511CD PLUS
- 11b High-power Client Bridge
- 2611CB3 PLUS (Deluxe)
- 11b Outdoor AP/ Router
- 2511HS PLUS
- 2511BG PLUS
- 11b/g Outdoor AP-Client
- 2611CB5 PLUS
- ECB-3220

\*\*\* Subject to change without prior notice

EnGenius Networks Singapore Pte Ltd

215 Henderson Road #01-04 Henderson Industrial Park Singapore 159554

Tel: +65-62271088 Fax: +65-62272766

Website: [www.engeniustech.com.sg](http://www.engeniustech.com.sg) Email: [inquiry@engeniustech.com.sg](mailto:inquiry@engeniustech.com.sg)