

# JW54APIH



## Wireless Multi Client Bridge/AP/WDS

The 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's 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'll experience the best wireless connectivity available today.

## Features & Benefits

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
Plug and Play	No driver needed, easy and quick to connect your Ethernet device to Wireless
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
Power-over-Ethernet (IEEE802.3af)	Flexible Access Point locations and cost savings

## 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

Power Supply: 90 to 240 VDC  $\pm$  10% (depends on different countries) Device: 12 V/ 1A

### Status LEDs

LAN: Link, WLAN: Link, Power: on/off

### 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, 12, 18Mbps

22dBm @ 24, 36Mbps

21dBm @ 48, 54Mbps

#### RF Connector

TNC Type (Female Reverse)

### 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

(EAPMD5/ 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)

#### Firmware Upgrade

Upgrade firmware via web browser

### Environmental

#### Temperature Range

Operating: -10°C to 60°C (14°F to 140°F)

Storage: -40°C to 70°C (-40°F to 158°F)

#### Humidity (non-condensing)

5%~95% Typical

### Package Contents

One Multi-Client/AP/WDS

One Power Adapter

One CAT5 UTP Cable

One Quick Start Guide

One CD-ROM with User's Manua

## Ordering information

MODEL	DESCRIPTION
JW54APIH	Wireless Multi-Client Bridge/AP/WDS

