

Hi-Gain™ Dual Band Wireless N Access Point/Bridge

MODEL: **HD45B**

DUAL BAND



PACKAGE CONTENTS:

- Hi-Gain™ Dual Band Wireless N Access Point/Bridge
- 3x 3dBi Hi-Gain Omni Directional Antennas
- One Mac/PC CD
- One RJ-45 Ethernet Cable
- One Power Adapter
- Easy to follow Quick Installation Guide

This highly efficient access point is the best choice for Small office / Home office users. It allows computers and network devices to gain wireless access in several modes throughout their network. Easy install procedures allow any computer user to setup a network environment in a very short time.

With built-in dual band 2.4GHz and 5GHz radios, this access point supports the IEEE 802.11b/g/n and IEEE 802.11a/n wireless network standards simultaneously. All computers and wireless-enabled network devices (including PDA, cellular phone, game console, etc.) can connect to this wireless access point without additional cabling. 802.11N wireless capability also gives you the highest wireless speeds. With a compatible wireless card installed in your PC, you can transfer files at up to 750Mbps (combined 2.4GHz and 5GHz transfer data rate)!

DUAL BAND

2.4GHz is the most commonly used wireless bandwidth. It also has a very narrow range of channels, usually between 1-11. Common household devices such as microwaves and cordless phones also use the 2.4GHz bandwidth, and can cause interference with your wireless network. As a result of its heavy usage and narrow range of channels, the speed and range of typical WiFi devices can be negatively affected.

5GHz solves this problem by providing a faster, less congested, bandwidth with a wider range of available channels.

EASE OF USE

Simply connect to the HD45B wirelessly, open your web browser and type in the setup page for the device to configure. Installation can be done in less than 3 minutes.

Applications

Five different modes: Access Point, Bridge-Client, Bridge Point to Point, Bridge Point to Multi Point, AP Bridge WDS

FEATURES

- Supports 2.4GHz and 5GHz wireless devices simultaneously.
- Provides IEEE 802.11b/g/Draft-N wireless LAN capability
- 5 different Wireless Modes: Access Point, Bridge Client, Bridge Point to Point, Bridge Point to Multi-Point, AP Bridge WDS modes.
- Supports 64/128-bit WEP, WPA, and WPA2 wireless data encryption.
- Supports MAC address filtering (Only allow specific wireless device of your choice to connect to this access point).
- Five wired LAN ports (10/100/1000M)
- Auto MDI / MDI-X function for all wired Ethernet ports.
- Provides IEEE 802.11a/b/g/n wireless LAN capability.
- Support DHCP (Server/Client) for easy IP-address setup.
- Easy to use Web-based GUI for network configuration and management purposes.



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SPECIFICATIONS:

SOC+RF: Ralink RT3883 (CPU+5GHz)
+ RT3092 (2.4GHz)

Gigabit Switch: Realtek RTL8367R

Flash: 8MB Parallel Flash

RAM: 64MB DDR2 RAM

LAN Ports: 10/100/1000M (Auto-MDI/MDI-X) x 5

MIMO Technology: 5GHz: 3T3R MIMO,
2.4GHz: 2T2R MIMO

Antenna: 3dBi Dual Band Fixed Dipole Antenna x 3
(3T3R for 5GHz and 2T2R for 2.4GHz)

Output Power:

2.4GHz

11b(11Mbps): 18±1.5dBm

11g(54Mbps): 17±1.5dBm

11n(20MHz, MCS15): 17±1.5dBm

11n(40MHz, MCS15): 16±1.5dBm

5GHz

11a(54Mbps): 15±1.5dBm

11n(20MHz, MCS23): 14±1.5dBm

11n(40MHz, MCS23): 14±1.5dBm

Receive Sensitivity:

2.4GHz

11b(11Mbps): -86dBm±2dBm

11g(54Mbps): -72dBm±2dBm

11n(20MHz, MCS15): -66dBm±2dBm

11n(40MHz, MCS15): -63dBm±2dBm

5GHz

11a(54Mbps): -72dBm±2dBm

11n(20MHz, MCS23): -66dBm±2dBm

11n(40MHz, MCS23): -63dBm±2dBm

Power: 12V, 1.25A Switch Power Adapter

Dimension: 32(H) x 180(W) x 118(D) mm

Operating Temperature: 0~40C,

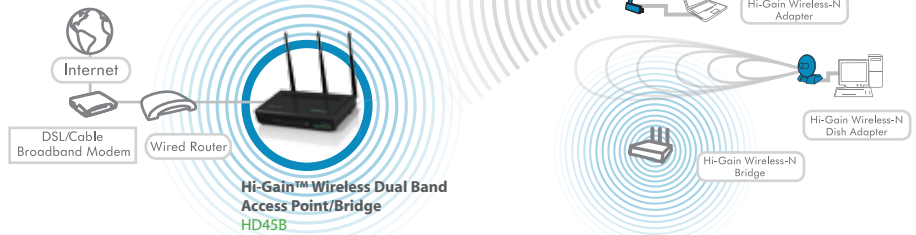
Storage: -20~60C

Operating Humidity: Operating: 10~90%
(Non Condensing)

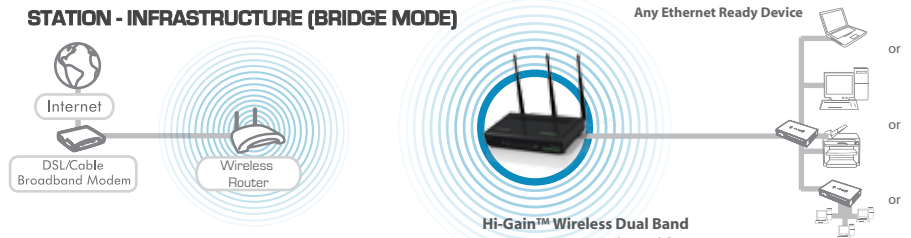
Storage: Max.95% (Non Condensing)

MULTIPLE OPERATING MODES

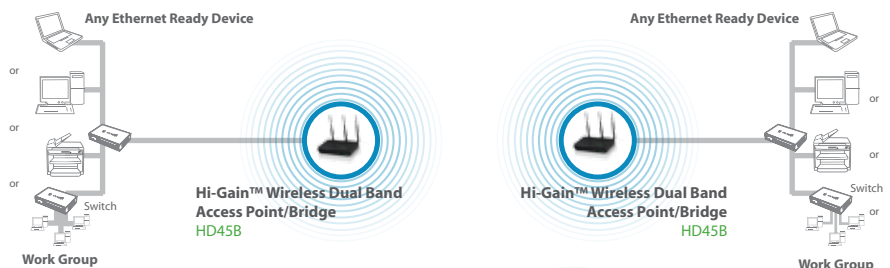
ACCESS POINT MODE



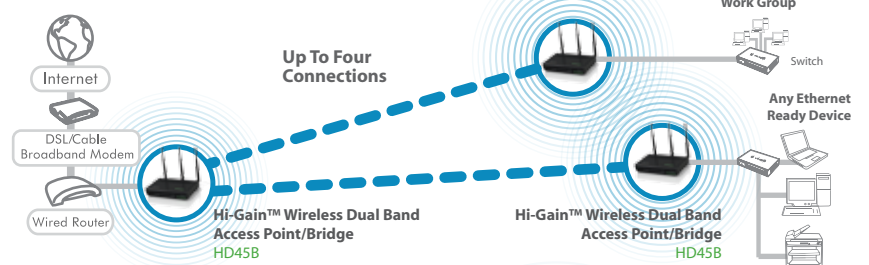
STATION - INFRASTRUCTURE (BRIDGE MODE)



AP BRIDGE - POINT TO POINT MODE



AP BRIDGE - POINT TO MULTIPLE POINT MODE



AP BRIDGE - WDS MODE

