

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

MODEL: **HOD45B**

### DUAL BAND



### PACKAGE CONTENTS:

- One Hi-Gain™ Outdoor Dual-Band Wireless-N Access Point/Bridge
- 2x Hi-Gain Outdoor Antennas
- One Power over Ethernet DC Injector
- L-shape Antenna Connector
- One Waterproof Gasket Kit for RJ-45
- Power Cable and Power Transformer
- Ethernet Cable
- Wall & Pole Mounting Kit
- Setup CD-Rom\*

Hawking Technology's HOD45B puts multiple solutions into one weather proof outdoor unit. This highly efficient access point is the best choice for data intensive, range extensive network users. It allows computers and network devices to gain wireless access in several modes throughout their network. It features a Power over Ethernet connection and includes wall and pole mounting kits for easy installation and setup.

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

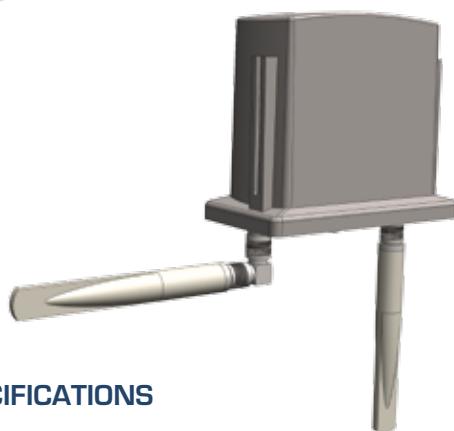
2.4GHz is the most commonly used wireless bandwidth. It also has a very narrow range of channels, usually between 1-11. Common household devices such as microwaves and cordless phones also use the 2.4GHz bandwidth, and can cause interference with your wireless network. As a result of its heavy usage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

### MULTIPLE OPERATING MODES

The HOD45B is designed with multiple operating modes: Range Extender (Repeater), Access Point, Bridge, Point-to-Point, Point-to-Multiple Points, and WDS Bridge. In Range Extender (Repeater) mode, the HOD45B repeats wireless signals from any access point or router with a 2.4GHz 802.11b/g/n network. In access point mode, the HOD45B converts a wired network to a wireless network. While in bridge mode, the HOD45B consolidates all your wired devices and connects them to your wireless network. Please see the last page for other operation modes.

### 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).
- 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.
- Features multiple operating modes and Power over Ethernet
- Setup Utility allows for easy configuration of multiple outdoor access points
- Heavy duty, weatherproof design



## SPECIFICATIONS

**SOC+RF:** Ralink RT3662 + RT309RL

**Gigabit Switch:** Realtek RTL8367R

**Flash:** 8MB Parallel Flash

**RAM:** 64MB DDR2 RAM

**LAN Ports:** 10/100/1000M (Auto-MDI/MDI-X) x 1

**MIMO Technology:** 5GHz: 2T2R MIMO, 2.4GHz: 2T2R MIMO

**Antenna:** 5dBi Dual Band Fixed Dipole Antenna x 2

(2T2R for 5GHz and 2T2R for 2.4GHz)

Output Power:

2.4GHz

11b(11Mbps): 18±1.5dBm

11g(54Mbps): 17±1.5dBm

11n: 17±1.5dBm

5GHz

11a(54Mbps): 14±1.5dBm

11n(20MHz, MCS23): 14±1.5dBm

11n(40MHz, MCS23): 14±1.5dBm

**Power:** 48VDC, 0.5A Switch Power Adapter (for PoE)

**Operating Temperature:** -20~70C, Storage:

-40~80C

**Operating Humidity:** Operating: 10~90% (Non Condensing), Storage: Max.95% (Non Condensing)

## SYSTEM REQUIREMENTS

- ◆ Computer (Mac or PC) with 200MHz or faster processor with CD-Rom or DVD-Rom drive
- ◆ Internet web browser (Internet Explorer 4.0 or better, Safari, Mozilla, etc.)
- ◆ A wired or wireless network adapter (ie. AirPort card, built-in Ethernet adapter, etc.)
- ◆ A home or business network

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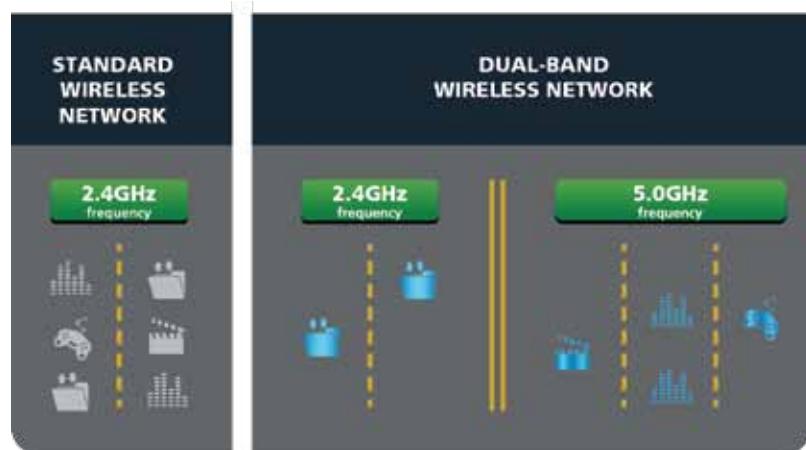
### Technical Support

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Email: techsupport@hawkingtech.com

## HOW IT WORKS

Dual-Band technology provides maximum flexibility to connect to the popular 2.4GHz frequency and off-load traffic to a faster, less-crowded 5.0GHz frequency.



With the availability of Dual frequencies (Dual-Band), 5.0GHz and 2.4GHz, users can circumvent Wi-Fi interference and optimize their wireless network for data intensive applications



## PERFORMANCE COMPARISON

While most standard dual-band data transfer speeds are up to 300mbps for both frequencies, the Hawking Dual Band Product data transfer speeds are up to 300mbps for the 2.4GHz frequency and 450mbps for the 5.0GHz. This means users can have more bandwidth and transfer more files in less time.

### Using the HOD45B



### Using a standard Wi-Fi Network

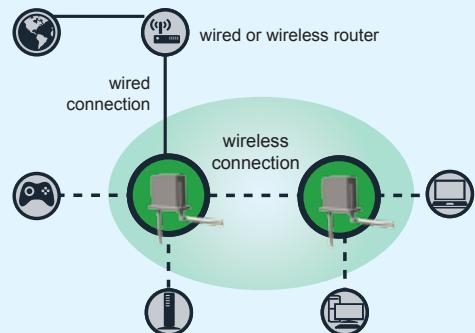


## OPERATING MODES

### UNIVERSAL REPEATER MODE

In **Universal Repeater Mode**, the HOD45B extends the range of any wireless b/g/n network. Great for covering a large area with multiple devices.

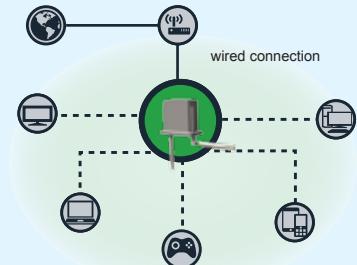
 Wireless Coverage  
 Wireless Connection  
 Wired Connection



### ACCESS POINT MODE

In **Access Point Mode**, the HOD45B connects directly to a Network through a wired Ethernet connection and then provides wireless connections to other devices (i.e. Wi-Fi enabled laptop, tablet, smart phone, gaming consoles, etc.).

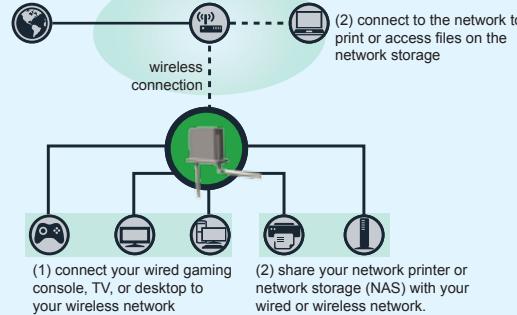
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 Wired Connection



### BRIDGE MODE

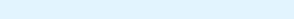
In **Bridge Mode**, the HOD45B (1) consolidates all your wired devices and connects them to your wireless network, (2) converts your wired devices, such as printers or external storage systems, for use on a wireless network.

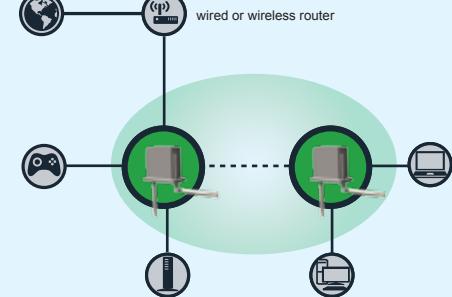
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### POINT-TO-POINT MODE

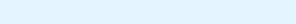
In **Point-to-Point Mode**, the HOD45B provides an invisible wireless connection between two specific devices.

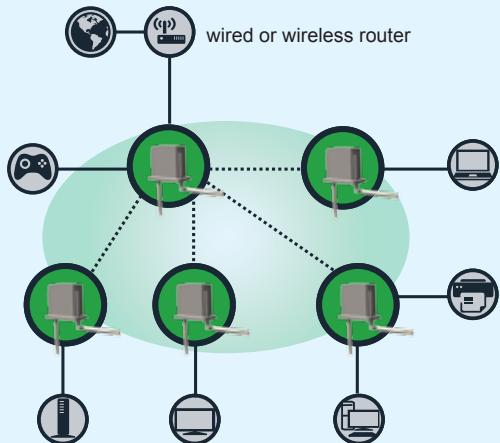
 Wireless Coverage  
 Wireless Connection  
 Wired Connection



### POINT-TO MULTIPLE POINT MODE

Similar to Point-to-Point Mode, in **Point-to-Multiple Point Mode**, the HOD45B provides an invisible wireless connection between specific devices (up to four Wireless AP/Bridge) and combines them into one network.

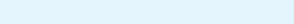
 Wireless Coverage  
 Wireless Connection  
 Wired Connection



### WDS BRIDGE MODE (WIRELESS DISTRIBUTING SYSTEM)

In **WDS Mode**, the HOD45B creates a larger wireless network by combining your wireless signal into one larger network. It can be daisy chained, using a wired or wireless connection.

*Note: This WDS mode requires:*  
 (1) multiple Hawking HOD45B Wireless AP/Bridges, other devices compatibility is not guaranteed.  
 (2) Must use the same SSID

 Wireless Coverage  
 Wireless Connection  
 Wired Connection

