Hi-Gain™ Wireless-300N
Multi-Function Extender Pro

MODEL: HWABN25

WIRELESS 300N AMP

PACKAGE CONTENTS:
- One Hi-Gain™Wireless-300N Multi-Function Extender Pro
- One CD (Contains Product Information)
- One Quick Installation Guide
- One 5V/2A Power Adapter

FEATURES:
- Mountable design means you can store this device safely and securely
- Built-in Hi-Gain Power Amplified Technology
- Power-over-Ethernet option allows easy deployment and placement

Increase your Range up to 2X your Existing Network

This Hi-Gain Wireless-300N Multi-Function Extender Pro is a high power solution that allows you to repeat 2.4GHz wireless 802.11b/g/n signals from any wireless access point or wireless router. The quality and speed of most standard wireless routers diminish at its maximum range of 200 feet. Anywhere, outside the coverage zone will have slow and unstable connections, or no connection at all. The HWABN25 has high power output of up to 500mW for unsurpassable wireless performance. Adding the HWABN25 to your wireless network to double your coverage area and improves the overall wireless connection.

Seamless Roaming

Seamless Roaming is a unique feature that mirrors existing network settings for ultimate mobility with all your Wi-Fi devices. It allows your Wi-Fi devices to connect and roam freely. Move between the original network and the extended network without having to re-enter your network settings and passwords. The perfect feature to use with your mobile devices like tablets, smartphones, and laptops.

Multiple Operation Modes

The HWABN25 Multi-Function Extender Pro 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 HWABN25 repeats wireless signals from any access point or router with a 2.4GHz 802.11b/g/n network. In access point mode, the HWABN25 converts a wired network to a wireless network. While in bridge mode, the HWABN25 consolidates all your wired devices and connects them to your wireless network. Please see the last page for other operation modes.

Hassle-free Installation

The HWABN25 is quick and easy to install using a Wi-Fi enabled device (i.e. tablet, smartphone, Mac or Windows computer). Hassle-free installation means no Ethernet cable or CD is required for the initial configuration. Simply power up the unit, use a Wi-Fi enabled device, and log into the set up page. This installation feature lets you configure and set up the HWABN25 within minutes.

Sleek Form Factor with Built-in Wall Mount

The Hi-Gain Wireless-300N Multi-Function Extender Pro's integrated mounting design provides a sleek alternative to bulky networking devices that clutter your space. Built-in wall mount ensures your device will be installed safely and securely. The Multi-Function Extender Pro is also PoE enabled, to use with an Ethernet Power Adapter*, so you can run fewer wires to your HWABN25. Front facing Wi-Fi locator LED light provides maximum visibility for setup and evaluates the Wi-Fi strength of that location. The external quick setup button or WPS button allows users to instantly activate the HWABN25 for secure setup.

*PoE Injector Adapter sold separately

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SPECIFICATIONS

Frequency Range: 2.4GHz
Wireless Standard: 802.11 b/g/n
LAN Port: One 10/100M LAN Port
Security: 64/128-bit WEP, WPA, WPA2 securities, and IEEE 802.1x authentication

Data Rate
11b: 1/2/5.5/11Mbps
11g: 6/9/12/24/36/48/54 Mbps
11n (20MHz): MCS0-15, up to 144Mbps
11n (40MHz): MCS0-15, up to 300Mbps

Output Power
11b: 26±1.5dBm
11g: 24±1.5dBm
11n (20MHz): 23±1.5dBm
11n (40MHz): 23±1.5dBm

Physical Specifications
Antenna: 2 Internal (2T2R)
LEDs: Wireless Signal, WLAN, Power, WPS, LAN
Dimension: 1.75(Height) x 4(Diameter) inches
Weight: 0.32 lb (5.12 oz)
Power Module: 5V, 2A Power Module Inside
Color: White
Temperature: 32~104°F (Operating)
            -4~140°F (Storage)
Humidity: 10~90% (Non-condensing)(Operating)
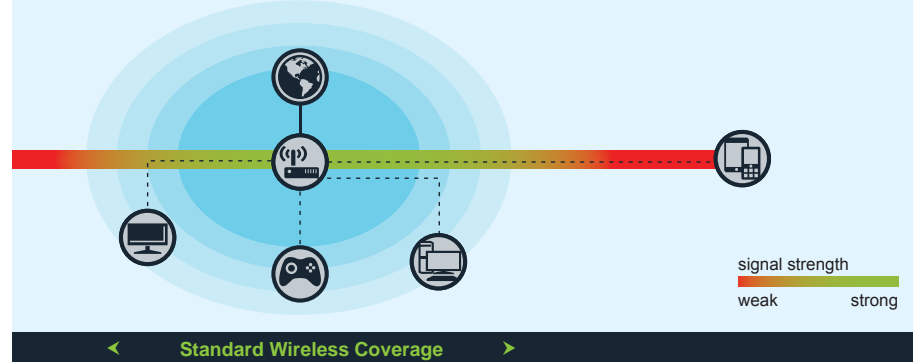   Max. 95% (Non-condensing)(Storage)
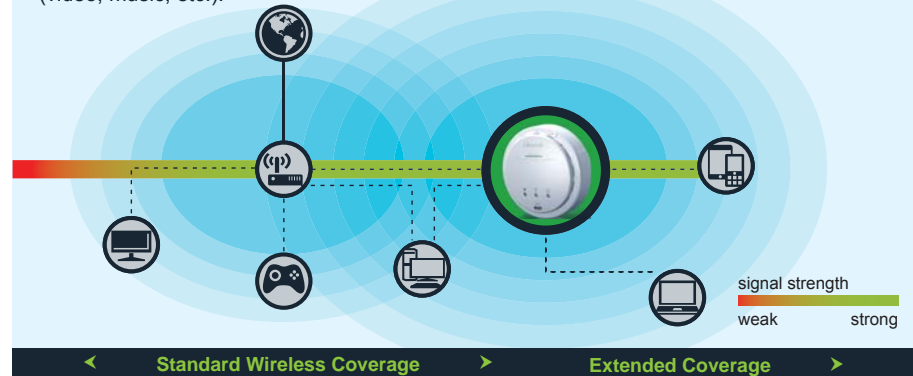
Certifications: CE, FCC

SYSTEM REQUIREMENTS

- A wired or wireless network device, smartphone, tablet, Windows or Mac computer
- Access to a wireless internet connection
- A web browser Internet Explorer 6+, Safari, or equivalent
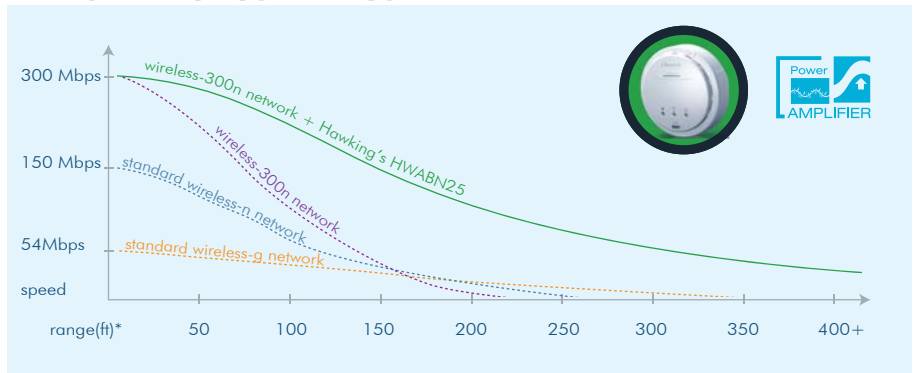- PoE injector (sold separately) required for PoE option

HOW IT WORKS

A common problem with high performance wireless networks is a **lack of coverage.** Devices trying to connect outside the coverage area will result in a slow and unstable connection, or possibly no connection at all.

signal strength
weak   strong

◄ **Standard Wireless Coverage** ►

The HWABN25 not only **increases the wireless coverage** of your high performance wireless network up to 2X larger, but also **boosts performance up to three times stronger** than the leading wireless repeaters/extenders on the market. It reduces your wireless deadspots, provides extended coverage for outer devices. In addition, it stabilizes your wireless connection for the slightly out of reach devices, improving the data transfer speed and reducing lag while streaming or downloading multimedia content (video, music, etc.).

signal strength
weak   strong

◄ **Standard Wireless Coverage** ►   **Extended Coverage** ►

PERFORMANCE COMPARISON

300 Mbps — wireless-300n network + Hawking's HWABN25
150 Mbps — standard wireless-n network / wireless-300n network
54Mbps — standard wireless-g network
speed

range(ft)*   50   100   150   200   250   300   350   400+
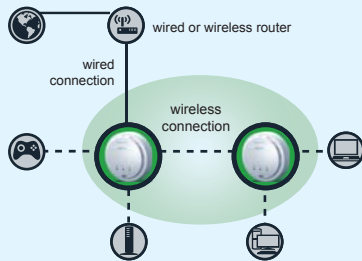
HAWKING® TECHNOLOGY   Hi-Gain™ Wireless-300N Multi-Function Extender Pro

OPERATING MODES

UNIVERSAL REPEATER MODE

In **Universal Repeater Mode**, the HWABN25 extends the range of any wireless b/g/n network. Great for covering a large area with multiple devices.
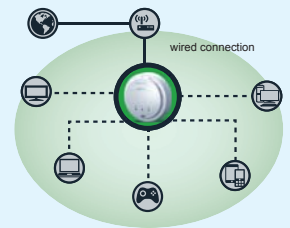

wired or wireless router
wired connection
wireless connection

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection

ACCESS POINT MODE

In **Access Point Mode**, the HWABN25 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.).
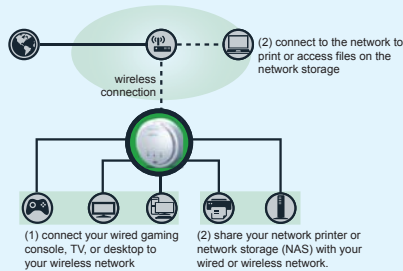

wired connection

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection

BRIDGE MODE

In **Bridge Mode**, the HWABN25 **(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.
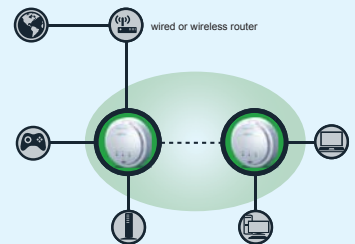

(2) connect to the network to print or access files on the network storage
wireless connection

(1) connect your wired gaming console, TV, or desktop to your wireless network

(2) share your network printer or network storage (NAS) with your wired or wireless network.

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection

POINT-TO-POINT MODE

In **Point-to-Point Mode**, the HWABN25 provides an invisible wireless connection between two specific devices.
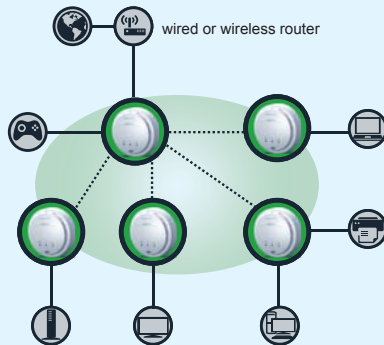

wired or wireless router

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection

POINT-TO MULTIPLE POINT MODE

Similar to Point-to-Point Mode, in **Point-to-Multiple Point Mode**, the HWABN25 provides an invisible wireless connection between specific devices (up to four Wireless AP/Bridge) and combines them into one network.

wired or wireless router

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection

WDS BRIDGE MODE
(WIRELESS DISTRIBUTING SYSTEM)

In **WDS Mode**, the HWABN25 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 HWABN2 Wireless AP/Bridges, other devices compatibility is not guaranteed.
(2) Must use the same SSID

wired or wireless router

- Wireless Coverage
- - - - Wireless Connection
──── Wired Connection