

Wireless-1200AC USB Adapter

MODEL: HW12ACU

Wireless-1200AC



Package Contents

- One Wireless-1200AC USB Adapter
- Quick Installation Guide
- Setup CD (Contains User's Manual and Drivers)

Features

- Up to 900Mbps Wireless Speeds!
- Dual-Band wireless connectivity for 2.4GHz or 5GHz
- Complies with 802.11ac and backwards compatible with 802.11a/b/g/n standards
- Wave-2 Compliant Mu-MIMO
- Supports WMM Wireless QoS Feature

System Requirements

- Windows XP+
- Mac OS 10.6+
- Available USB Port
- Wireless-AC Network
- An available CD-ROM drive is recommended
Software also available via www.hawkingtech.com



Upgrade your WiFi with Premium Connectivity & Versatility

Use the HW12ACU to instantly increase the speed of your network via USB port. Make the move to the latest Wireless-1200AC network standard. The small, compact profile of the HW12ACU is perfect for discreetly upgrading your laptop or desktop with the blazing fast speeds of Wireless-1200AC. Maximize your networking flexibility, giving yourself greater range and overall performance. The perfect addition for your laptop, the HW12ACU is unobtrusive in design but packs a powerful punch, giving speeds up to 6x faster than 802.11n built-in WiFi adapters. The HW12ACU also supports 802.11a/b/g/n backwards compatibility, meaning you can still connect to older routers/repeaters/access points that are not yet on the 802.11ac standard. Stay portable while you are at home or on the go. The HW12ACU will deliver convenient and consistent WiFi coverage for seamless HD streaming, gaming and other data-intensive activities.

Wireless-AC

2.4GHz Wireless 802.11b/g/n is the most commonly used wireless standard. Because of this popularity, interference and lag are common in the 2.4GHz network, especially in areas with a lot of wireless networks. 5GHz Wireless-AC was designed to get past this interference. Using a different frequency allows 5GHz Wireless-AC to maintain high speeds and throughput. The tradeoff of 5GHz Wireless-AC is the range is reduced when compared to 2.4GHz wireless networks.

Wireless-AC is built on a Dual-Band standard. Dual-Band Technology provides maximum flexibility allowing selection of the popular 2.4GHz frequency for long range applications or selection of the faster, less-crowded 5GHz frequency for data intensive applications. With HW12ACU Wireless-AC, you have the option to connect to a 5GHz network for high speed streaming or to a 2.4GHz network for a more distant connection.

Wave-2 Complaint Mu-MIMO

Multi-User, Multiple-input, multiple-output technology allows a supported router to communicate with multiple devices such as smartphones, tablets, smart-tvs, computers simultaneously. This should drastically improve your WiFi performance. The HW12ACU will operate faster because all devices on the network have less time to wait to get data from the router, thus reducing lag and buffering when watching video, playing games, etc.

WiFi Multimedia (WMM Wireless QoS)

The HW12ACU supports WMM (WMM Wireless QoS). This means that this feature, when enabled on your supported router, gives priority to voice and video traffic over WiFi. Any WiFi devices that are video messaging or watching streaming video will have higher priority over other internet traffic. This should allow a smoother and clearer video for the user.



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SPECIFICATIONS

Chipset: Realtek RTL8812BU

USB Bus Type: USB 3.0 Type A

Antenna: Internal Antennas x2 (2T2R)

Data Rate:

11a: 6/9/12/24/36/48/54Mbps;

11b: 1/2/5.5/11Mbps; 11g: 6/9/12/24/36/48/54Mbps

11n (20MHz): MCS0-07, up to 144Mbps

11n (40MHz): MCS0-07, up to 300Mbps

11ac (80MHz): VHTMCS0-9, up to 867Mbps

Output Power:

(2.4GHz)

11b (11M): 14±1.5dBm, 11g (54M): 12±1.5dBm

11n (20MHz, MCS7): 12±1.5dBm

11n (40MHz, MCS7): 12±1.5dBm

(5GHz)

11a (54Mbps): 10±1.5dBm

11n (20MHz, MCS7): 10dBm±1.5dBm

11n (40MHz, MCS7): 10dBm±1.5dBm

11ac (80MHz, MCS9): 9dBm±1.5dBm

Receive Sensitivity:

(2.4GHz)

11b: -79±2dBm, 11g(54M) -65±2dBm

11n(20MHz, MCS7): -64±2dBm

11n(40MHz, MCS7): -61±2dBm

(5GHz)

11a(54M): -65±2dBm, 11n(20MHz, MCS7): -65±2dBm

11n(40MHz, MCS7): -61±2dBm

11ac(80MHz, VHTMCS9): -51±2dBm

Operating Temperature: 32~104°F (0~40°C)

Storage: -4~140°F (-20~60°C)

Dimension: 1.4(L) x 0.6(W) x 0.3(D) in
(35.6 x 15.2 x 7.62 mm)

Weight: 0.1 oz (2.8 g)

Certification: FCC

Compact but Powerful WiFi Boost



Because of the slim, compact design of the HW12ACU, users can experience maximum network connectivity without losing the portability of laptops and ultrabooks. The unobtrusive USB port connector ensures that your adapter securely moves with you from the office to the house and everywhere in between.

How it Works

Most WiFi enabled laptops and desktops have internal adapters. Therefore, it is difficult to pick up the strongest wireless signal and to change the settings of your antenna. In most cases, the internal adapter performance diminishes past a 150' radius, resulting in an unstable connection speed. This causes online activities such as web surfing, video chatting, video streaming and gaming to constantly lag. The HW12ACU is designed to increase your connection speeds of both 2.4GHz and 5GHz frequencies. This provides high performance and long distance connections for your wireless network. Use the HW12ACU to convert a laptop/desktops standard wireless connection into a more reliable, faster Wireless-1200AC connection.

Standard Built-in WiFi has slower speeds due to low gain antenna and older technology)



HW12ACU Adapter supports up to 900Mbps on 5GHz Wireless-AC and up to 300Mbps on older 2.4GHz Wireless.

