

**HWUG1A**

## Wireless-G USB Adapter with Removable Antenna

For Mac Users



### PACKAGE CONTENTS:

- ◆ One Wireless-G USB Network Adapter
- ◆ One Removable WiFi Antenna
- ◆ One CD (Driver/Utility/User's Manual)
- ◆ One Quick Installation Guide

### Wireless-G Networking with Optional Antenna Upgrades for Extended Wireless Range!

Hawking Technology's HWUG1A, 2.4Ghz Wireless-G USB 2.0 Network Adapter with removable antenna, packs the latest wireless technology into a compact unit, capable of transferring data at speeds up to 54Mbps and 108Mbps, capable when paired with the Hawking HWRGM1A Mimo Router. The external dipole antenna can easily be removed and upgraded to a Hawking Hi-Gain Antenna for extended wireless range.

For piece-of-mind wireless security, the HWUG1 supports 64/128-bit WEP data encryption that protects your wireless network from eavesdropping. It also supports the WPA and WPA2 (Wi-Fi Protected Access) security standards that combines IEEE 802.1x and TKIP (Temporal Key Integrity Protocol) technologies. Client users are required to authorize before accessing to APs or AP Routers, and the data transmitted in the network is encrypted/decrypted by a dynamically changed secret key.

### Features

- ◆ Works with both IEEE 802.11b and IEEE 802.11g products.
- ◆ Removable antenna with reverse SMA connector – upgradeable to a higher power antenna for a wider wireless coverage. (For the best result, pair the HWUG1 with a Hawking Hi-Gain Antenna )
- ◆ Signal strength indicator shows current wireless signal reception information
- ◆ High-speed transfer data rate - up to 108Mbps turbo mode when paired with the HWRGM1A router
- ◆ Supports WMM (IEEE 802.11e QoS standard)- High throughput allows for the transfer of data heavy multi-media files.
- ◆ Supports 64/128-bit WEP, WPA (TKIP with IEEE 802.1x) and AES functions for the highest level of security.
- ◆ Automatic fallback increases data security and reliability.
- ◆ USB2.0 Compliant & Bus powered

### System Requirements

- ◆ One Mac Desktop or Notebook
- ◆ Mac OS X 10.3 - 10.4 (Intel or Power PC)
- ◆ One Available USB Port
- ◆ One Available CD-Rom For Driver Installation
- ◆ Wireless 802.11 b/g network (i.e. Ap or Wireless Devices)

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## HWUG1A



### 1 Year Warranty

#### OPTIONAL ANTENNA UPGRADES

HAI7MD	Hi-Gain™ 7dBi Indoor Directional Antenna
HAI8DD	Hi-Gain™ 8dBi Indoor Directional Antenna
HAO9SIP	Hi-Gain™ 9dBi Outdoor Omni-Directional Antenna Kit
HAO9SDP	Hi-Gain™ 9dBi Outdoor Directional Antenna Kit
HAO14SDP	Hi-Gain™ 14dBi Outdoor Directional Antenna Kit

#### SPECIFICATIONS

##### Standard

- ◆ IEEE 802.11b/g

##### Interface

- ◆ USB 2.0 Type A

##### Frequency Band

- ◆ 2.4000 ~ 2.4835GHz (Industrial Scientific Medical Band)

##### Modulation

- ◆ OFDM with BPSK, QPSK, 16QAM, 64QAM (11g) BPSK, QPSK, CCK (11b)

##### Data Rate

- ◆ 54/48/36/24/18/12/11/9/6/5.5/2/1Mbps auto fallback

##### Security

- ◆ 64/128-bit WEP Data Encryption, WPA, WPA2, AES and IEEE 802.1x

##### Antenna

- ◆ External Removable WiFi Antenna

##### Drivers

- ◆ Mac OS X 10.3 - 10.4 (Intel or Power PC)

##### LEDs

- ◆ Power/Link (Pwr/Lnk)

##### Transmit Power

- ◆ 17dBm ± 2dBm

##### Receive Sensitivity

- ◆ -70dBm@54Mbps, -83dBm@11Mbps

##### Dimensions

- ◆ 10(H) x 28(W) x 89.6(D) mm

##### Temperature

- ◆ 32~122°F (0 ~50°C)

##### Humidity

- ◆ Max. 10-95% (Non-Condensing)

##### Certification

- ◆ FCC, CE, IC

#### READY, NETWORK AND GO!

##### Step 1 - Insert the Setup CD

Power on your Desktop or Notebook and insert the setup CD into the CD-Rom Drive.

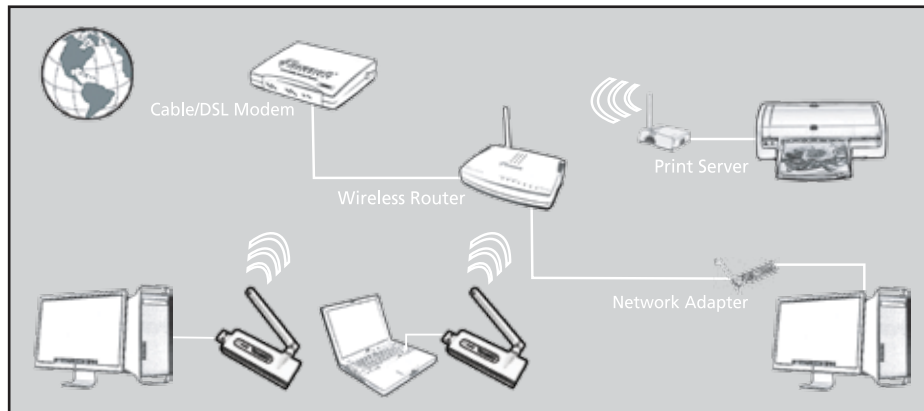
##### Step 2 - Install Utility and Driver

The setup CD will guide you through the installation process

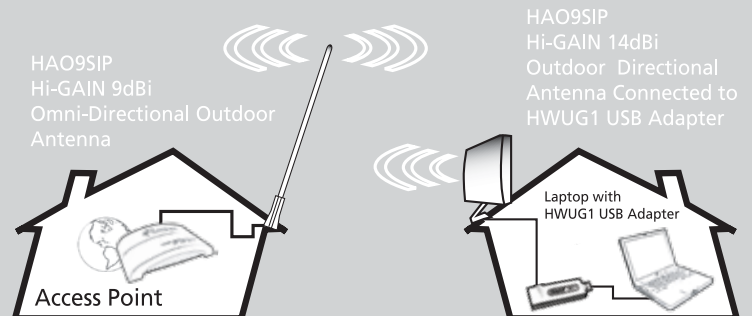
##### Step 3 - Plug in the HWUG1A

After you have completed the driver installation, insert the HWUG1 firmly into the USB slot and search for wireless signals.

#### NETWORK DIAGRAM



#### Extend Your Wireless Range with Hawking's Hi-Gain™ Outdoor Antenna



#### Extend Your Wireless Range with Hawking's Hi-Gain™ Indoor Antenna

