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# Introduction

Thank you for purchasing the Hawking Technologies Hi-Speed 54G Wireless-G Access Point and Ethernet Bridge. This product is compliant with the IEEE 802.11g wireless standard and operates at transfer speeds up to 54Mbps. It is backwards compatible current 802.11b wireless hardware.

The **Hi-Speed 54G Wireless AP/Bridge** utilizes the highest wireless security standards (WPA) to protect your network from outside intruders.

The unique multi-function feature of the HWBA54G puts three solutions into one compact unit, saving you time and money. You may setup your HWBA54G as a Wireless Access Point to provide wireless access to any wired network or you may choose to set up your device as an Ethernet Bridge to make any Ethernet-ready device wireless. The Hi-Speed 54G Wireless AP/Bridge can also function as a wireless repeater to extend your wireless network range.

## **LED Indicators**

LED Indicators on the Front Panel

HWBA54G	On / Solid	Off / Flashing
Power	Unit is Powered	Off - Not Powerod

### **Ports on the Rear Panel**



	Port/button	Functions	
A	5V DC	Connects to the power adapter.	
В	LAN	Connects to your LAN's network device.	
С	II-X	Switch this button for choosing different	
		wiring scheme LAN connections; Switch left	
		to select using a straight Ethernet cable (To	
		connect to a hub or switch); Switch right to	
		use a Crossover Ethernet cable (To connect	
		directly to a PC or device).	
D	Antenna	Adjust to have better performance. Twist off	
		to remove and replace with a Hawking	
		Hi-Gain Antenna (sold separately) for better	
		performance.	
Е	Reboot	Use a pin-shape item, for example a pin tip, to	
		press this button to re-boot this device when	
		the device stops working properly.	

# **Getting Connected**

- 1. **Find a Location**: choose a location to place the access point. Usually, the best place for the access point is at the center of your wireless network, with line of straight to all your wireless stations.
- 2. **Adjust the Antenna**: usually the higher the antenna is placed, the better your performance will be.
- 3. **Connect to your local area network:** connect a straight or a crossover **Ethernet cable** to one of the **Ethernet** port of the access point, and the other end to a hub or switch. (If you are using a straight Ethernet cable, make sure the II-X button is switched right; the other way for Cross Ethernet cable.)
- 4. **Power on the device**: connect the included AC power adapter to the access point's power port and the other end to a wall outlet. *Note: use only the power adapter that provided with the access point. Using a different power adapter may cause permanent damage to the device.*

# About the Operating Modes

This device provides two main operational applications: Access Point and Bridge modes, which are mutually exclusive.

1. **Access Point**: As a wireless access point the HWBA54G allows any existing wired network to have wireless access.



2. **Bridge**: When acting as a Bridge, the HWBA54G serves as a wireless adapter that connects a wired network with another wired or wireless network(s) through an access point(s). See the sample application below.



This device is shipped with configuration that is functional right out of the \_\_\_\_\_

box. If you want to change the settings in order to perform more advanced configuration or even change the mode of operation, you can use the web-based utility provided by the manufacturer as described in the following sections or use the Software-based Setup Wizard in the included CD-Rom.

# WPA AP -Configuration via Web

### Login

- 1. Open the browser, enter the local port IP address of the Device (default at **192.168.1. 240**), and click "Go" to get the login page.
- 2. The user name and password are not required and should be left blank for the first-time login. Just click **OK** to enter.

Enter Netw	vork Passwor	d	? ×
<b>?</b> >	Please type yo	ur user name and password.	
U	Site:	192.168.1.240	
	Realm	Login	
	<u>U</u> ser Name		
	Password		
	$\Box$ Save this p	assword in your password list	
		OK Can	cel

# **Info(Information)**

The setup home page will display the information about the current settings of this access point.

HAWKING		
nfo   Associations   Wireless	Access Repeater   Security   Advanced   IP Address   Admin	
li-Speed 54G Access	Point	
	Information	
	Basic information about this access point. NOTE: You	may have to reload this page to see the current setting
	Access Point Information	
	Access Point Name:	802.11g AP
	MAC address of AP:	00E0981A3641
Ser Gum	Associated stations:	0
1:	RF Firmware version:	1.0.4.3
	System Firmware version:	1.1.P5.1
	Current IP Settings	
1 in	IP address:	10.1.1.240
-	DHCP client	disabled
	Current Wireless Settings	
	Profile:	802.11b/g Mixed Mode
	Wireless network name (SSID):	802_11g
	Channel:	1
	WEP:	disabled
	WPA:	disabled

Done

#### Assoc(Associations)

This page shows the **MAC addresses** of devices connected to this Wireless 802.11g Access Point.



### Wireless (Wireless Configuration)

Here you can set/change wireless configuration including **visibility status**, **PHY profiles**, **SSID**, **channel**, **transmission rate** ... etc. See the description that comes after each function.

When you are done with the change, remember to **restart** this access point to let the new settings take effect.



Visibility Status	If you select <b>invisible</b> , this AP can not be
	detected by wireless sniffers; which means
	all the wireless clients can not associated to
	this AP unless they know/use the SSID.
PHY Profiles	You can select different wireless
	networking hardware (PHY) to meet your
	wireless environment or for optimal
	performance. You can thus choose from the
	802.11 b/g Mixed Mode 802.11 g Only 802.11 g Only, Maximum performance 802.11 b/g Mixed Mode 802.11 b/g Mixed Mode Long 802.11 b/g Mixed Mode Long 802.11 b/g Mixed Mode Long 802.11 b/g Mixed Mode Long 802.11 b/g Mixed Mode 802.11 b/g Mixed Mode 802.11 b/g Mixed Mode 802.11 b/g Mixed Mode 802.11 g Only 1 st.
Wireless Network Name (SSID)	The <b>SSID</b> is the unique name shared
	among all points in your wireless network.
	The name must be identical for all devices
	and points attempting to connect to the
	same network.
Channel	Shows the selected channel that is
	currently in use. (There are <u>14</u> channels
	available, depending on the country.)
Transmission rate (Mbps)	Shows the current transfer rate
	There are Best (Automatic), Fixed 1, 2,
	5.5, 6, 9, 11, 12, 18, 24, 36, 48, and
	54Mbps.)

### Access (Access Control)

This AP provides MAC Address filtering, which prevents unauthorized MAC Addresses from accessing your Wireless LAN.

Once you check to enable access control, only MAC addresses entered in following fields are allowed to associate to this AP. Note:

- 1. You can enter 16 MAC Addresses to associate to this AP.
- 2. You can copy the MAC addresses shown on the Station List and past them to the MAC address table to save the effort of typing and avoid typo as well.

Info   Association	ns   Wireless   Access	Repeater   Security   Advanced   IP Add	iress   Admin
Hi-Speed 54	IG Access Point		
to	1	Access Control On this page you can enable Access associate to this AP. Note that you changes are effective immediately.	is Control. If enabled, only the MAC addresses entered into the 'MAC address' boxes are allower an cut and paste the addresses from the 'Station List' page into the MAC address boxes. These
		Enable access control:	Check this box to enable access control.)
No. 1	many -	MAC address 1:	
11:		MAC address 2:	
		MAC address 3:	
	Hill	MAC address 4:	
	-	MAC address 5:	
		MAC address 6:	
		MAC address 7:	
		MAC address 8:	
			Save) Cance

### **Figure: Access Control**

### **Advanced (Advanced Wireless)**



Maximum associated stations	200
Fragmentation threshold	To fragment MSDU or MMPDU into small sizes of frames for increasing the reliability of frame (The maximum value of <b>2346</b> means no fragmentation is needed) transmission. The performance will be decreased as well, thus a noisy environment is recommended.
RTS Threshold	RTS (Request To Send) is a control frame sent from the transmitting station to the receiving station requesting permission to transmit. This value is recommended to remain at its default setting of <b>2432</b> . Should you encounter inconsistent data flow, only minor modifications of this value are recommended.
Beacon period	This is also called <b>Beacon Interval</b> . This value indicates the frequency interval of the beacon. A beacon is a packet broadcast by the AP to synchronize the wireless network. The default value is 100.
DTIM interval	Indication Message. A DTIM is a countdown field informing clients of the

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next window for listening to broadcast and
multicast messages. When the access point
has buffered broadcast or multicast message
for associated clients, it sends the next
DTIM with a DTIM Interval value. Access
point clients hear and awaken to receive the
broadcast and multicast messages.

Maximum burst time	The amount of time the radio will be
	reserved to send data without requiring an
	ACK. Adding a burst time should help
	throughput for 802.11g clients when AP is
	running in mixed mode. This number is in
	units of microseconds. A typical value would
	be 1000 microseconds. When this number
	is zero, bursting is disabled.
Enable PSM buffer	PSM stands for Power Save
	Mechanisms. Turn this on to enable support
	for stations in power save mode.

### Security

Here you can configure the security of your wireless network. Selecting different method will enable you to have different level of security.

WPA (Wi-Fi Protected Access) is the new wireless LAN security standard for 802.11 networks, which was developed to replace the existing standard WEP.WPA authorizes and identifies users based on a secret key that changes periodically.

WPA configuration	
Enable WPA Authenticator	to require stations to use high grade encryption and authentication.
WPA enabled:	
PSK pass-phrase:	Leave blank if stations will be supplied a key by the 1X Authentication Server. Choose a pass-phrase between 8 and 63 characters.
WPA Multicast Cipher Type:	TKIP-WPA Default Currently TKIP is the only permitted setting.
WPA Pairwise Cipher Type:	TKIP-WPA Default Currently TKIP is the only permitted setting.
WPA Group Key Update Interval:	3600 seconds.

PSK pass-phrase	PSK stands for Pre-Shared-Key and serves
	as a password. User may key in a 8 to 63
	characters string to set the password or
	leave it blank, in which the 802.1x
	Authentication will be activated. Note
	that if user key in own password, make
	sure to use the same password on client's
	end.

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WPA Multicast Cipher Type	Select TKIP - WPA Default
WPA Pairwise Cipher Type	Select TKIP - WPA Default
WPA Group Key Update Interval	This shows the time period for the next key change. The default value is <b>3600</b> (seconds). Users may set the values of their preference.

\*Note that WPA Multicast Cipher Type & WPA Pairwise Cipher Type are the same.

**802.1x Authentication** in conjunction with the RADIUS SERVER verifies the identity of would be clients.

802.1X configuration	
When 802.1X authentica	tion is enabled then the AP will authenticate clients via a remote RADIUS server.
802.1X enabled:	
Authentication timeout (mins):	60
RADIUS server IP address:	192.168.11.1
number:	
RADIUS server shared secret	radius_shared
MAC Address Authentication:	

Authentication timeout	The	default	value is	<b>60</b> (mi	nutes).	When
(mins)	the	time	expires,	the	device	will
	re-a	uthentica	te with R	ADIUS	server.	

RADIUS server IP address	Enter the RADIUS server IP.
RADIUS server port number	Port used for RADIUS, the number of ports must be the same as the RADIUS server, normally the port is <b>1812</b>
RADIUS server shared secret	When registered with a RADIUS server, a <b>password</b> will be assigned. This would be the RADIUS server shared secret.
MAC Address Authentication	Use client mac address for authentication with RAIDUS server

**WEP** (Wired Equivalent Privacy) is a data privacy mechanism based on a 64-bit/128-bit shared key algorithm. WEP encryption scrambles the communication between your access points and client devices to keep the communication private. However, if an intruder passively receives enough packets encrypted by the same WEP key, the intruder can perform a calculation to learn the key and use it to join your network.

WEP configuration	
WEP is the wireless enco For 64 bit keys you must digit is either a number fi	ryption standard. To use it you must enter the same key(s) into the access point and the wireless stations. enter 10 hex digits into each key box. For 128 bit keys you must enter 26 hex digits into each key box. A hex rom 0 to 9 or a letter from A to F. If you leave a key box blank then this means a key of all zeros.
Enable WEP:	Check this box to enable WEP. For the most secure use of WEP, also select "Deny Unencrypted Data" and set Authentication to "Shared Key" when WEP is enabled
WEP key lengths:	64 bit Select the WEP key size. This length applies to all keys.
WEP key:	
Default WEP key to use:	Wep Key 1 Select the key to be used as the default key. Data transmissions are always encrypted using the default key. The other keys can only be used to decrypt received data.
Deny unencrypted data:	Select this to require peers to use encryption. This is only effective when WEP is enabled.
Authentication:	Open O Shared Key O Both     Open allows anyone to authenticate to this access point. Shared key' allows only stations that know the     key(s) to authenticate. Both' allows a station to use either mode.
	Save Cancel

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Enable WEP	WFP (Wired Equivalent Privacy) encryption can be
	well (when Equivalent 1 iivdey) eneryption can be
	used to ensure the security of your wireless
	network. The window allows you to set to <b>64bit</b>
	or <b>128bit</b> Encryption (WEP) by using either
	Passphrase or Manual Entry methods.
	<i>Note</i> : To allow Decryption and communication, all
	wireless devices must share the identical encryption
	key on the same network.
WEP key lengths	Select between 64-bit and 128-bit.
WEP key	You can enter WEP key here or use the default
	settings shown in the next field.

Default WEP key to use	Select one of the four keys to encrypt your data.	
	Only the key you select it in the "Default WEP key	
	to use" will take effect.	
Deny unencrypted data	To access this wireless network clients are required	
	to use encryption. This should be checked together	
	with the item "Enable WEP".	
Authentication	The authentication mode defines configuration	
	options for the sharing of wireless networks to	
	verify identity and access privileges of roaming	
	wireless network cards. You may choose between	
	Open, Shared Authentication, and Both.	
	If the access point is using "Open	
	Authentication", then the wireless adapter will	
	need to be set to the same authentication mode.	
	Shared Authentication is when both the sender	
	and the recipient share a secret key.	
	Select <b>Both</b> for the network adapter to select the	
	Authentication mode automatically depending on	
	the access point Authentication mode.	

## IP Addr (IP Address Settings)

Set the management IP for the Wireless 802.11g Access Point, the default IP address is 192.168.1.240.

#### **IP Address Mode**

If you select **DHCP**, the DHCP server will automatically assign an IP address to this device. The fields that follow will be grayed out and require no further configuration. If you select **Static**, you will have to manually set the device IP address.



#### Access point name

You can name this access point for identification. You can leave it blank without entering anything. However, the name for the access point will be useful for identification especially when there are more than on access points in your wireless network.

## **Admin (Administration)**

In this Administration page, you can

### Change password.

The device has no password at default. It is recommended that you set a password to ensure that no one can adjust the device's settings;

### To set/change password:

- 1. Enter your password in the first password box.
- 2. Enter the password again in the next box to confirm.
- 3. Click **SAVE** to save the setting.

### Reboot/Reset this device.

**Reboot**: the device will re-boot itself and while still keep your original settings. You will probably do this if problems occur with this access point.

**Reset**, the device will reset itself to the factory default settings. (*Note that all your original settings will be replaced by factory default settings.*)

<u>Upgrade system firmware.</u>

#### To upgrade system firmware,

- 1. You will have to download the file to your computer.
- 2. Enter the file name and path in the field next to the Browse button. Or you can click Browse to find the file you previously downloaded.
- 3. Click the **Upload** button to start upgrading. Wait for about 1 minute for the upgrade.
- 4. When the firmware upgrade is complete, remember to reboot the device.
- 5. If you want to change the operation mode, remember the default IP address for WAP Access Point is 192.168.1.240, while for Bridge mode it is 192.168.1.241.

Info   Associations   Wireless   Access	Repeater   Security   Advance	ed   I <u>P Address   Admin</u>
	On this page you can configure the IP address used by the Web sever running on this bridge. For "statit" mode, the IP address settings are given here. For "DHCP" mode, these settings are supplied by a DHCP server on your network. You can also change the password, reboot the bridge, or resettings to their factory defaults. If you have changed any settings it is necessary to reboot the bridge for the new settings to take effect.	
-	User name	
N: m	User name:	This is the user name that you must type when logging in to these web pages.
	Administrator password:	This is the password that you must type when logging in to these web pages. You must enter the same password into both boxes, for confirmation [Save] [Cancel]
	Commands	
	Reboot access point:	Reboot
	Reset to factory defaults:	Reset
	Upgrade system firmwa	re
		File to upload:
		Browse
		Upload The unload may take up to 60 seconds.

# **Bridge -Configuration via Web**

## Login

Open the browser, enter the local port IP address of the Device (default at **192.168.1. 241**), and click "Go" to get the login page.

The user name and password are not required and should be left blank for the first-time login. Just click **OK** to enter.

Enter Netv	vork Passwor	d	? ×
<b>?</b> >	Please type yo	ur user name and password.	
ধ	Site:	192.168.1.241	
	Realm	Login	
	<u>U</u> ser Name		
	<u>P</u> assword		
	🔲 <u>S</u> ave this p	bassword in your password list	
		OK Can	cel

## **Info(Information)**

The setup home page will display the information about the current settings of this access point.

a Mirologo   Popurity   Advanced	8 dayla		
o ( wineless ( security ( Advanced )	Astum		
	Basic information about this bridge. NOTE: You may have to reload thi	s page to see the current settings.	
	Access Point Information		
	State:	Associated	
Contraction	Wireless network name (SSID):	hawking AP	
	Channel:	10	
	Transmission rate:	Best (automatic)	
	Communications strength:	74%	
Hillin	BSSID:	00E0984C6AF6	
	WEP:	disabled	
	WPA:	disabled	
	Bridge Information		l.,
	Bridge Name:	802.11g Bridge	
	Number of bridged clients:	1	
	IP address:	10.1.1.234	
	MAC address:	00E0981A3641	
	RF Firmware version:	1.0.4.3	
	System Firmware version:	1.1.P5.1	
	Available access points		

#### Wireless (Wireless Configuration)

Here you can set/change wireless configuration including visibility status,

**PHY profiles, SSID, channel, transmission rate** ... etc. See the description that comes after each function.

When you are done with the change, remember to restart this access point to let the new settings take effect.



Wireless Mode	Infrastructure mode: to connect to a AP
	Ad-hoc mode to connect to other bridge
	station.
ireless Network Name (SSID)	The <b>SSID</b> is the unique name shared
	among all points in your wireless network.
	The name must be identical for all devices
	and points attempting to connect to the
	same network.
Channel	Select channel that is currently in use.
	(There are <u>14</u> channels available,
	depending on the country.) only for Ad-hoc
	mode
Transmission rate (Mbps)	Shows the current transfer rate
	There are Best (Automatic), Fixed 1, 2,
	5.5, 6, 9, 11, 12, 18, 24, 36, 48, and
	54Mbps.)
PHY Profiles	You can select different wireless
	networking hardware (PHY) to meet your
	wireless environment or for optimal
	performance. You can thus choose from the
	802.11b/g Mixed Mode       802.11g Only       802.11g Only, Maximum performance       802.11b/g Mixed Mode       802.11b/g Mixed Mode Long       802.11b WirFi       802.11b Only       Test Mode

## Security

Here you can enable the WEP and set the WEP key, if you enable WEP, the client PC must also set their WEP key.

Enable WEP	WEP (Wired Equivalent Privacy) encryption can be
	used to ensure the security of your wireless
	network. The window allows you to set to <b>64bit</b>
	or <b>128bit</b> Encryption (WEP) by using either
	Passphrase or Manual Entry methods.
	Note: To allow Decryption and communication, all
	wireless devices must share the identical encryption
	key on the same network.
Default WEP key to use	Select one of the four keys to encrypt your data.
	Only the key you select it in the "Default WEP key
	to use" will take effect.
Deny unencrypted data	To access this wireless network clients are required
	to use encryption. This should be checked together
	with the item "Enable WEP".
Authentication	The authentication mode defines configuration
	options for the sharing of wireless networks to
	verify the identity and access privileges of roaming
	wireless network cards. You may choose between
	Open, Shared Authentication, and Both.
	If the access point is using "Open
	Authentication", then the wireless adapter will
	need to be set to the same authentication mode.
	Shared Authentication is when both the sender
	and the recipient share a secret key.
	Select Both for the network adapter to select the
	Authentication mode automatically depending on

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	the access point Authentication mode.
WEP key lengths	Select between 64-bit and 128-bit.
WEP key	Enter WEP key here .

## **Advanced (Advanced Wireless)**



Cloning mode	WLAN Card :
	set MAC address by internal MAC address,
	Ethernet Client:
	Set MAC address as the first LAN client.
Fragmentation threshold	To fragment MSDU or MMPDU into small

	sizes of frames for increasing the reliability of frame (The maximum value of <b>2346</b> means no fragmentation is needed) transmission. The performance will be decreased as well, thus a noisy environment is recommended.
RTS Threshold	RTS (Request To Send) is a control frame sent from the transmitting station to the receiving station requesting permission to transmit. This value is recommended to remain at its default setting of <b>2432</b> . Should you encounter inconsistent data flow, only minor modifications of this value are recommended.
Maximum burst time	The amount of time the radio will be reserved to send data without requiring an ACK.

## Admin (Administration)

In this Administration page, you can

### Change device name.

This is the name that the bridge will use to identify itself to external configuration and IP-address-finding programs. It is okay to leave this blank if you are not using these programs

### IP address setting.

Set the IP address for this device or use dhcp to get a ip for this device.

### Change password.

The device has no password at default. It is recommended that you set a password to ensure that no one can adjust the device's settings;

### To set/change password:

- 4. Enter your password to the first password box.
- 5. Enter the password again in the next box to confirm.
- 6. Click **SAVE** to save the setting.

### Reboot/Reset this device.

**Reboot**, the device will re-boot itself and still keep your original settings. You will probably do this if problems occur with this access point.

**Reset**, the device will reset itself to the factory default settings. (*Note that all your original settings will be replaced by factory default settings.*)

#### To upgrade system firmware,

- 1. You will have to download the file to your computer.
- 2. Enter the file name and path in the field next to the Browse button. Or you can click Browse to find the file you previously downloaded.
- 3. Click the **Upload** button to start upgrading. Wait for about 1 minute for the upgrade.
- 4. When the firmware upgrade is complete, remember to reboot the device.

#### HAWKING

#### Info | Wireless | Security | Advanced | Admin

#### Hi-Speed 54G Bridge



Done

#### Administration

On this page you can configure the IP address used by the Web server running on this bridge. For "static" mode, the IP address settings are given here. For "DHCP" mode, these settings are supplied by a DHCP server on your network. You can also change the password, reboot the bridge, or reset all settings to their factory defaults. If you have changed any settings it is necessary to reboot the bridge for the new settings to take effect.

Device name	
Device name:	802.11g Bridge This is the name that the bridge will use to identify itself to external configuration and IP-address-fir programs. This is not the same as the SSID. It is okay to leave this blank if you are not using these
	programs.
IP settings	
IP Address Mode:	Static O DHCP Select DHCP'to get the IP settings from a DHCP server on your network. Select 'Static' to use the II settings specified on this page.
Default IP address:	10.1.1.234
	Type the IP address of your bridge
Default subnet mask:	255 255 255 0
	The subnet mask specifies the network number portion of an IP address. The factory default is 255.255.255.0.
Default gateway:	10.1.1.1
	This is the IP address of the gateway that connects you to the internet. The factory default is 192.16
Security	
User name:	
	This is the user name that you must type when longing in to these web nages
é desiniatestas na sacurado	mile to be user name that you must type when logging in to trease web pages.
	This is the password that you must type when logging in to these web pages. You must enter the s password into both boxes, for confirmation [Save] [Cancel]
Commands	
Reboot bridge:	Report
	Treboor
Reset to factory defaults:	Reset
Upgrade system firmwa	re
File to upload:	
-	
	Browse
Upload	
The upload may take u	p to 60 seconds.
The upload may take u	p to 60 seconds.

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