AirborneDirect™ Wireless Ethernet Bridge

Quick Start Guide

Package Contents

The AirborneDirect™ Wireless Ethernet Bridge includes the following items:

- One AirborneDirect™ Ethernet Bridge with an attached cable and an RJ-45 interface connector.
- One AC power adapter and cord.
- One mounting cradle *(mounting hardware is user-supplied).*
- One Access Point (AP), IEEE 802.11b/g-compliant with DHCP enabled *(optionally supplied with the Evaluation Kit).*
- One CD containing documentation and software.

Getting Started Quickly

The AirborneDirect Wireless Ethernet Bridge is shipped ready to use. The following steps lead to rapid configuration of the Bridge.

1. Unpack the Evaluation Kit

Unpack the AirborneDirect Wireless Ethernet Bridge and compare the package contents with the items listed on the front of this *Quick Start Guide*. If any item is missing or damaged, contact Quatech immediately.

2. What Else You Need

To complete your installation, you need:

- An Ethernet client ~ a device or computer with a RJ-45 jack. The Ethernet client must be within range of the Access Point (AP) to be used with the Bridge.
- A LAN Host ~ a device or computer with a network-interface card (NIC).
- A DHCP-enabled, IEEE 802.11b/g-compliant Access Point.

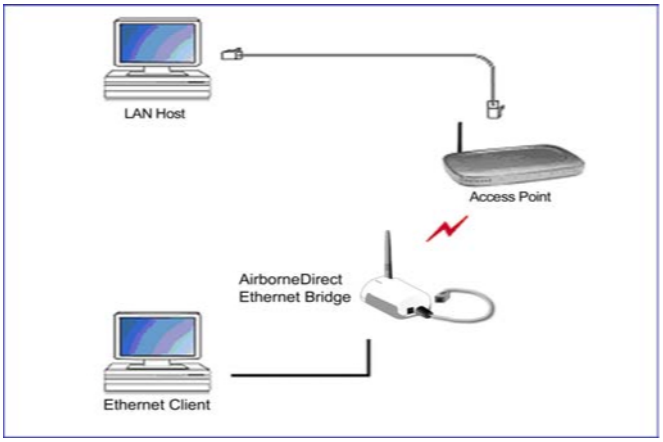
Note: *The AirborneDirect Wireless Ethernet Bridge can be configured by wireless connection (the Bridge does not have to be cabled to be configured).*

3. Install Software

Insert the CD. The program installation should start automatically.

4. Make the Access Point Connections

Place the Access Point in close proximity to the Bridge. Follow the directions in the Access Point manual to install the network cable (to the LAN Host) and the power cable for the Access Point. Note that the Ethernet Client is not connected initially.



Note: *Other AP's in the area may interfere with the Bridge's ability to associate with the AP you intend to use (the Bridge will try to associate with the first, available "best-quality" AP). Either remove power from the other AP's or perform the setup in a remote location.*

5. Power-up Your AirborneDirect Wireless Ethernet Bridge

Use the supplied power adapter to connect the Bridge to a power outlet. When the Bridge is powered-up, the three indicator LEDs at the top of the Bridge will indicate the status of the Bridge as follows:

LED	LED Color	Function
Power	Off	Bridge is not receiving power.
	Red	Bridge failed its Power On Self Test (POST) and is not configured for wireless communication.
	Amber	Bridge passed its POST does not have valid IP Address.
	Green	Bridge passed its POST and has a valid IP Address.
Link	Off	Bridge is not receiving power.
	Blinking Red	Bridge is searching for an Access Point.
	Green	Wireless network and MAC have associated with an Access Point.
Comm	Off	No power, or no wireless TCP session is established and no Ethernet physical connection is detected.
	Red	No wireless TCP session is established; an Ethernet physical connection is detected.
	Blinking Red	An Ethernet physical connection was detected and there is Ethernet traffic present on that connection, but no wireless TCP session is established.
	Amber	A wireless TCP connection is established but no physical Ethernet connection is detected (i.e., no Ethernet cable is attached to the Bridge).
	Blinking Amber	A wireless TCP session is established, a physical Ethernet connection is detected, and the Bridge is transmitting or receiving data across the wired Ethernet port.
	Green	A wireless TCP session is established, a physical Ethernet connection is detected, but there is no active data movement across the wired Ethernet port.

If the LEDs indicate a problem with a wired or wireless connection, remove the power source from the Bridge, wait a few seconds, and re-apply power. If the LEDs still do not behave appropriately, see the AirborneDirect™ Ethernet Bridge User's Guide (on the CD) for troubleshooting.

6. Record Settings from Your Access Point's Configuration Program

On the LAN host, use your Web browser to access your Access Point's online configuration program at the appropriate IP address (for example: http://192.168.0.1). Your Access Point

documentation should describe this procedure. Go the appropriate screen in that program and perform these steps.

- **Find the Service Set Identifier String (SSID)**
  Go to the Wireless Settings or equivalent screen in your Access Point's configuration application that shows the Access Point's SSID. Record the SSID below. (This is case sensitive).

  Access Point SSID:_____

- **Disable Wireless Security**
  Go to the Wireless Settings, Security, Encryption, or equivalent screen in your Access Point's configuration application that shows the WEP/WPA setting. If WEP or WPA is enabled, disable it (you can enable the AP security after the Bridge has been configured).

- **Find the Bridge's Internet Protocol (IP) Address**
  Go to the Attached Devices or equivalent screen in your Access Point's configuration application that lists the IP addresses of devices attached to the Access Point. Find the IP address for the Bridge and record it below. You will need it to access the Bridge with the Airborne Control Center (ACC).

  Bridge's IP address:_____

  Note: *If you do not see the Bridge as an attached device, refresh the configuration screen (some Access Point programs provide a Refresh button for this purpose). If the Bridge still does not appear, refer to the troubleshooting chapter in this Guide and in the documentation for your Access Point.*

  You can also use the device discovery feature of the Airborne Control Center software to

- **Verify the MAC Address**
  Go to the Attached Devices or equivalent screen in your Access Point's configuration application that lists the MAC addresses of attached devices. Verify that the MAC address shown for the Bridge matches the one on the label on the back of the Bridge.

- **Verify the Dynamic Host Configuration Protocol (DHCP) Name**
  Go to the Router Status or equivalent screen in your Access Point's configuration application that shows the Bridge's DHCP client name. Verify that this name matches the last six characters in the Bridge's MAC address (AIRBORNExxxxxx) on the label on the back of the Bridge.

7. Configure the Bridge using the Airborne Configuration Center

On the LAN host, launch the Airborne Configuration Center (ACC). An icon to launch the ACC will be found in your Windows Start menu if you properly installed the software as directed in Step 3. The ACC's initial window displays a list of devices detected on your local network. Select the Bridge with the IP address you recorded in Step 6.

Log in to the Bridge using the user id of "dpac" and password of "dpac". Be sure to use all

lowercase. The Status page will now appear with status information about the Bridge.

8. Change the Bridge's SSID

In the ACC interface, click the **Network** link at the top of the page. The Wireless Network Configuration page will now appear. Be sure the **Wireless Network Type** is set to **Infrastructure.**

Change the **SSID** to that of the Access Point that you recorded in Step 5B (this is case sensitive so it must be exactly the same; for example, all uppercase).

To assign a static IP address, uncheck the enable DHCP option.

Click the **Save** button to apply your changes. Once the changes are saved, the ACC confirms the settings are saved and prompts you to reset the Bridge. After the Bridge resets, the ACC will attempt to reconnect automatically and display the Status page.

> **Note:** *In the unlikely event the page still does not appear, determine whether the Bridge IP address changed. If it did, use the new IP address. Otherwise, try the old one again. The ACC's reconnection effort may time-out before the Bridge can obtain its DHCP lease.*

9. Connect Your AirborneDirect Ethernet Bridge

Connect the cable on the Bridge to an RJ-45 jack on your device or computer.

Note: *The "Ethernet Client" can be a computer or any Ethernet device.*

10. Where to Go from Here

You are now ready to access the full Wi-Fi power of the AirborneDirect™ Wireless Ethernet Bridge and tap into your wireless local area network. You may now verify that your device or computer, LAN host, Bridge, and Access Point are communicating.

The supplied CD contains the AirborneDirect™ Wireless Ethernet Bridge Users Guide (that provides comprehensive information about the Bridge) and the ACC.

Quatech also offers developer documentation for OEMs and developers interested in using Airborne™ wireless technologies with their own products and applications. For more information, please contact Quatech.

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