

# ***IslandTime PC***

## **HP WiFi Client**

### **Startup Guide**

PACKING LIST for IslandTime HP System

1 – IslandTime HP Wifi Client Bridge with N-Male antenna connector and IP68 RJ45 Pass through

1 – 8 dbi antenna with pole mounting hardware & N-Female antenna jack.

1 – Marine Mount Antenna Adapter

1 – Passive Power Over the Ethernet (POE) Injector

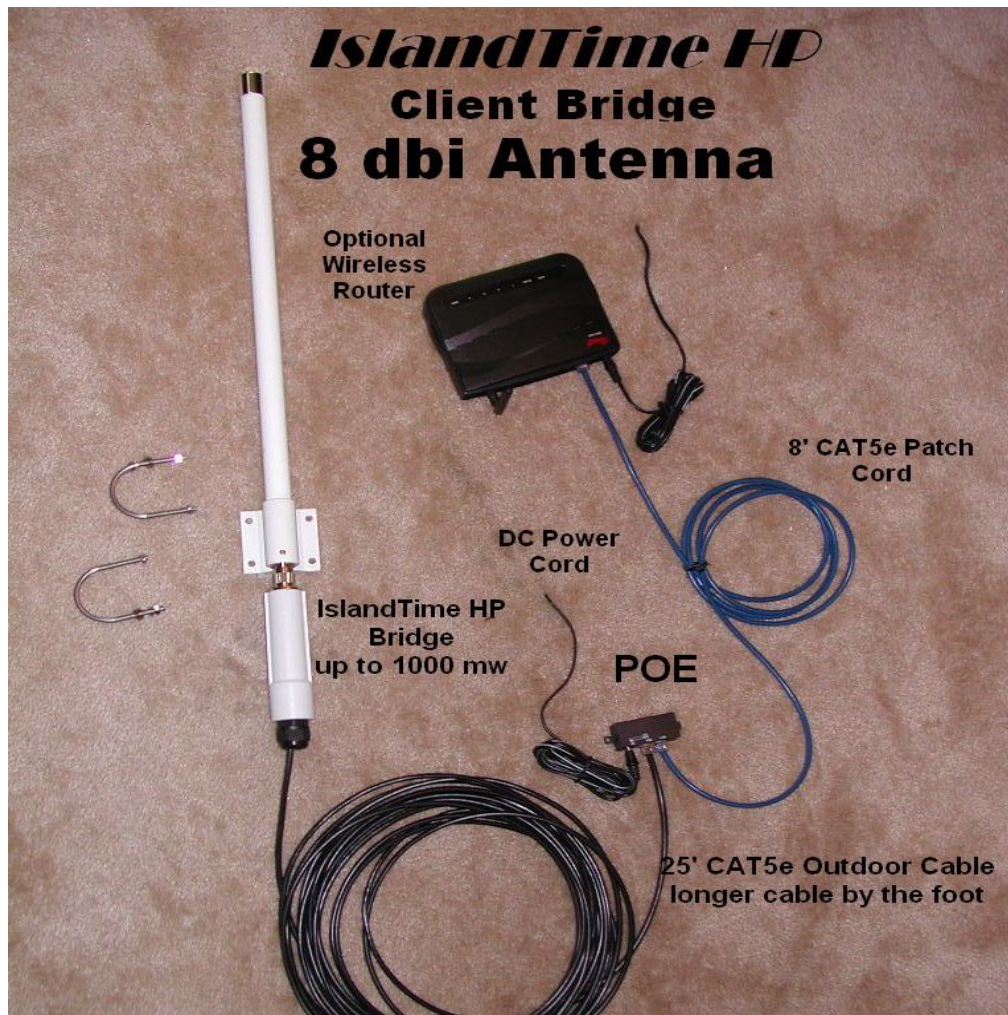
1 – 2 m DC power cord for POE with 5.5 X 2.1 mm coaxial barrel plug.

**Connect the white striped wire to 12 vdc positive and the black wire to negative.**

25 feet outdoor CAT5e cable (End with heat shrink tubing is to be used at Bridge)

8 feet indoor CAT5e patch cable

12" self fusing silicon "rescue tape" for sealing antenna connection



# Installation

1. Install the antenna.
2. Run the black outdoor CAT5e cable from a dry location below deck that has access to 12 volt power for the POE injector to the antenna. The end of the cable with the heat shrink tubing should be at the antenna.



4. Take the compression nut off the feedthru gland on the white cap and place it over the CAT5e cable followed by the compression fitting. Hand tighten the white cap until it seats securely against the white O ring on the bridge forming a watertight seal. Insert the cable end into the cable gland and plug the RJ45 plug into the jack on the base of the Bullet. You should hear the plastic locking tab snap into place.

The white o-ring on the bridge has been lubricated with silicon grease to insure a good seal. Check that the o-ring is seated evenly around the bridge after tightening.

5. Tighten the knurled knob on the feedthru until the rubber compression fitting is secure on the heat shrink tubing forming a waterproof seal. **Use 2 wrenches while doing this so that the white cap is not over tightened and broken.**
6. Attach the bridge to the antenna by threading the N-male plug to the N-female jack on the base of the antenna. Hand tighten this securely. You should not be able to move the bridge when properly tightened. You want the antenna jack firmly seated against the orange weather proofing gasket in the N-Male plug on the bridge. Wrap the self-fusing silicon tape tightly around the bridge/antenna junction stretching it as you go. This will prevent saltwater from corroding the plated brass threads of the N-male plug.

7. Down below install the POE injector power pigtail and plug it into the POE. **The white stripped wire is POSITIVE (+).**

8. Plug the **black** CAT5e cable into the POE port labeled "POE". The bridge should now have power and a power led will be lit on the bridge.

9. Plug one end of the **blue** CAT5e patch cord into the POE port labeled "LAN" and the other end into the "LAN" port on the computer or "WAN / Internet" port on a wireless router.

## Quick Start Guide

Your IslandTime Client Bridge (ITCB) and wireless router, if purchased, are configured and ready to use. Do not run any "Setup Wizard" that may appear in conjunction with the wireless router.

If you purchased your Wireless Router from ITPC, it has the following settings. *You should not need to go into the Router at this time:*

SSID: **boat**

Browser IP Address: <http://192.168.222.1>

User name: admin

Password : itcb

**Boot your computer, apply power to the bridge, and connect to the wireless router if using one. The following steps will allow you to find and connect to an open AP on shore if one is available:**

1. Open a browser window ( Firefox, Internet Explorer etc.).
2. In the address box of the browser enter <http://192.168.221.20> This is the address of the ITCB browser interface. Bookmark this address to make it quicker to access the interface in the future.
3. A log on window will appear. Enter the Username and Password. (Case Sensitive)  
Username = ubnt  
Password = itcb
4. The browser interface will come up showing you the "Main" tab. This is a read only connection status page

The screenshot displays the AirOS web interface. At the top left is the AirOS logo with the text "by Ubiquiti Networks". At the top right is the IslandTime PC logo featuring a palm tree and the text "BULLET 2HP". Below the logos is a navigation menu with tabs: Main, Link Setup, Network, Advanced, Services, and System. The "Main" tab is selected. The main content area shows connection status for "Stanley Wireless".

Base Station SSID:	Stanley Wireless	AP MAC:	00:17:3F:7D:1D:7A
Signal Strength:	-72 dBm		
TX Rate:	36 Mbps	RX Rate:	36 Mbps
Frequency:	2437 MHz	Channel:	6
Antenna:	Main	Noise Floor:	-96 dBm
Security:	none	ACK Timeout:	48
Transmit CCQ:	66.6%	QoS Status:	No QoS
Uptime:	00:02:44	Date:	2009-01-28 12:36:42
LAN Cable:	ON	Host Name:	UBNT
LAN MAC:	00:15:6D:AE:A1:60	LAN IP Address:	192.168.221.20
WLAN MAC:	00:15:6D:AD:A1:60	WLAN IP Address:	192.168.2.5
Extra info:	----	Tools:	----

LAN STATISTICS

Refresh

5. Select the “Link Setup” page and under the heading “Basic Wireless Settings” click on the “Select” button. This will perform a scan and bring up a scan window showing the results of the scan (any available AP's). In the signal strength column the stronger signal is indicated by a smaller negative number, ie. -85 is stronger than -90.



Main Link Setup Network Advanced Services System

### BASIC WIRELESS SETTINGS

Wireless Mode: [?] Station [v]  
 ESSID: Stanley Wireless [Select...]  
 Lock to AP MAC: [ ]  
 Country Code: United States [v]  
 IEEE 802.11 Mode: B/G mixed [v]  
 Channel Spectrum Width: [?] 20MHz [v] Max Datarate: 54Mbps  
 Channel Shifting: [?] Disabled [v]  
 Channel Scan List:  Enabled [Edit...]  
 Output Power: [Slider] 26 dBm  Obey Regulatory Power  
 Data Rate, Mbps: 54 [v]  Auto

## Link Setup Tab



UBNT: [Bullet2 Hi-Power] - Site Survey - Mozilla Firefox

http://192.168.221.20/survey.cgi

Scanned channels: 1 2 3 4 5 6 7 8 9 10 11

	MAC address	ESSID	Encryption	Signal, dBm	Noise, dBm	Frequency, GHz	Channel
<input type="radio"/>	00:12:0E:50:64:C8	WRST9553	WEP	-90	-95	2.437	6
<input type="radio"/>	00:14:D1:44:F8:F6	Rosa	WEP	-92	-96	2.437	6
<input type="radio"/>	00:17:3F:7D:1D:7A	Stanley Wireless	-	-73	-95	2.437	6
<input type="radio"/>	00:18:39:CF:97:17	itpc	-	-23	-95	2.412	1
<input type="radio"/>	00:1A:70:48:0E:61	linksys	WPA	-90	-95	2.437	6
<input type="radio"/>	00:1A:EF:02:11:04	boat	-	-47	-96	2.462	11
<input type="radio"/>	00:1B:FC:5E:3C:54	Barclay	-	-90	-96	2.462	11
<input type="radio"/>	00:1C:10:3E:BE:43	NKHM3000	WEP	-89	-95	2.437	6
<input type="radio"/>	00:1E:C7:E1:BA:F9	2WIRE283	WEP	-39	-95	2.437	6
<input type="radio"/>	00:1F:C6:18:7B:6D	HIXON	WEP	-81	-96	2.462	11
<input type="radio"/>	00:22:6B:84:6C:98	linksys	-	-87	-95	2.412	1

Select Scan Close this window

## Scan Window

6. If you see an open AP you want to try ( "-" indicates no encryption) click on the radio button to the left of the AP MAC address and then click on the "Select" button at the bottom left of the scan window. You will be taken back to the "Link Setup" window where you will see the name of the chosen AP in the window labeled "ESSID:".

7. At the bottom of the bottom of the "Link Setup" page click on "Change" then click on the "Apply" button that appears at the top of the page. A "progress" window will appear stating that the "configuration is being applied". The change takes 15-20 seconds. When the configuration is changed the window with the "progress bar" will disappear and you will be back on the "Link Setup" page.

8. Select the "Main" tab to see the status of the new connection. The Signal Strength, TX Rate (transmit) and RX Rate (receive) are snapshot values. To update these click on the "Refresh" Button at the bottom right of the page.

9. Enter an internet address in the browser address bar and start surfing.

The complete manual for the latest firmware can be found at  
**<http://wiki.ubnt.com/wikilindex.php/AirOS>**