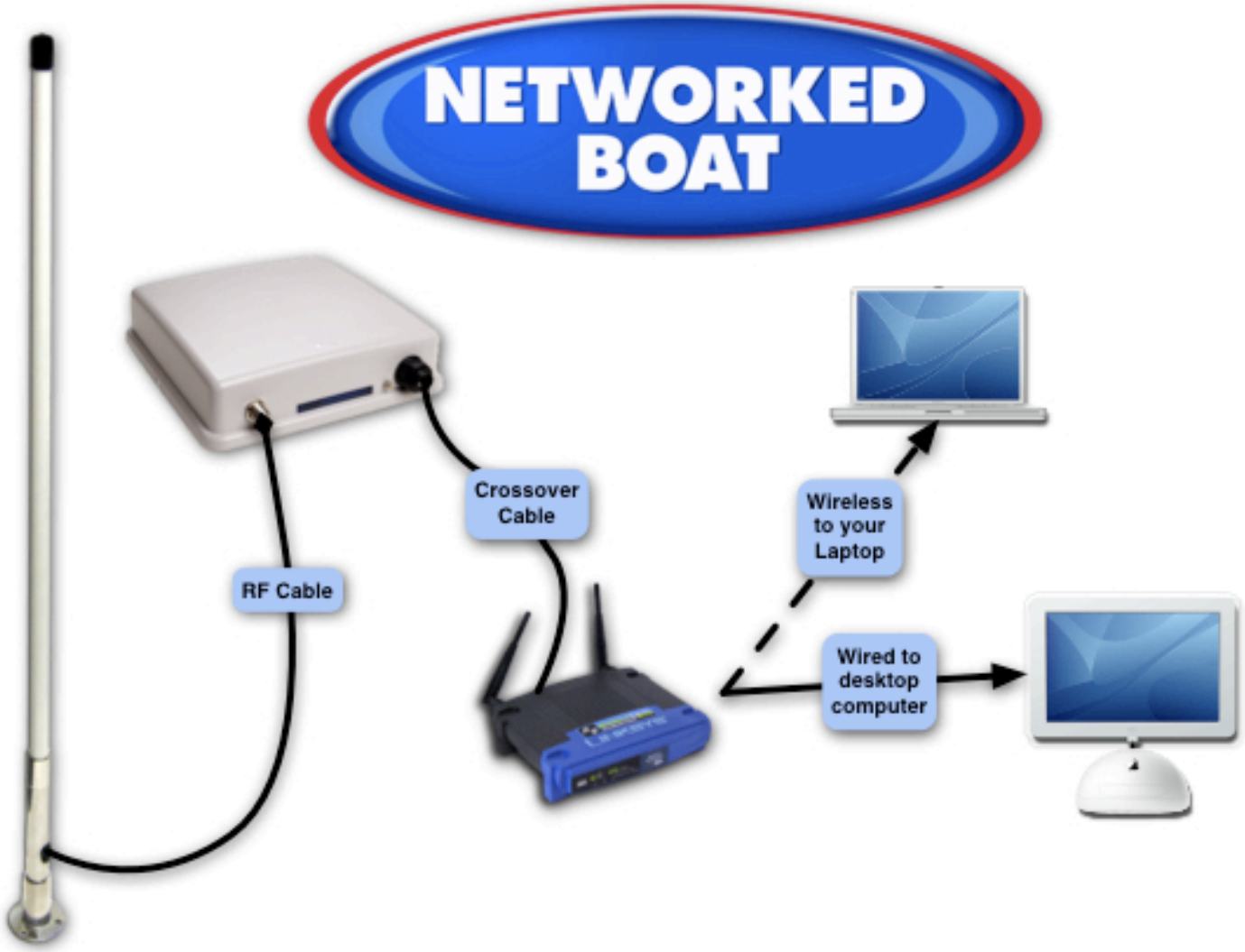
BROADBAND XPRESS

The Marine Communications Network



Xtreme Powered Networked Boat
User Manual

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Section 1 – INITIAL EQUIPMENT SETUP

Confirm you have the following equipment included with your bridge:

1: Power over Ethernet kit consisting of the following:

Wall power plug
Inverter
Power over Ethernet adapter

2: High power Bridge/Router

Xtreme power bridge/router

4: Two (2) Ethernet CAT-5 cables

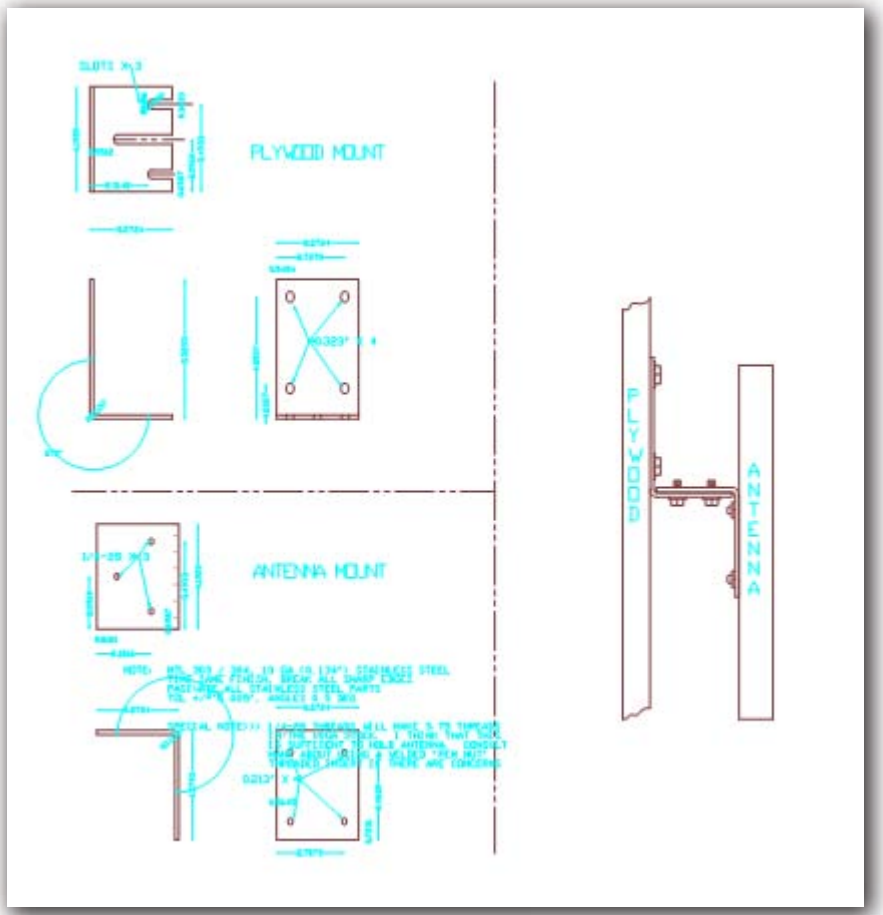
INSTALLATION INSTRUCTIONS

1: Attach the bracket to the rear screws of the bridge/router below:

(rear of Xtreme power bridge)

2: Attach the bracket to the vertical surface of your boat in a convenient location. This device has a NEMA enclosure so it can withstand some water exposure.

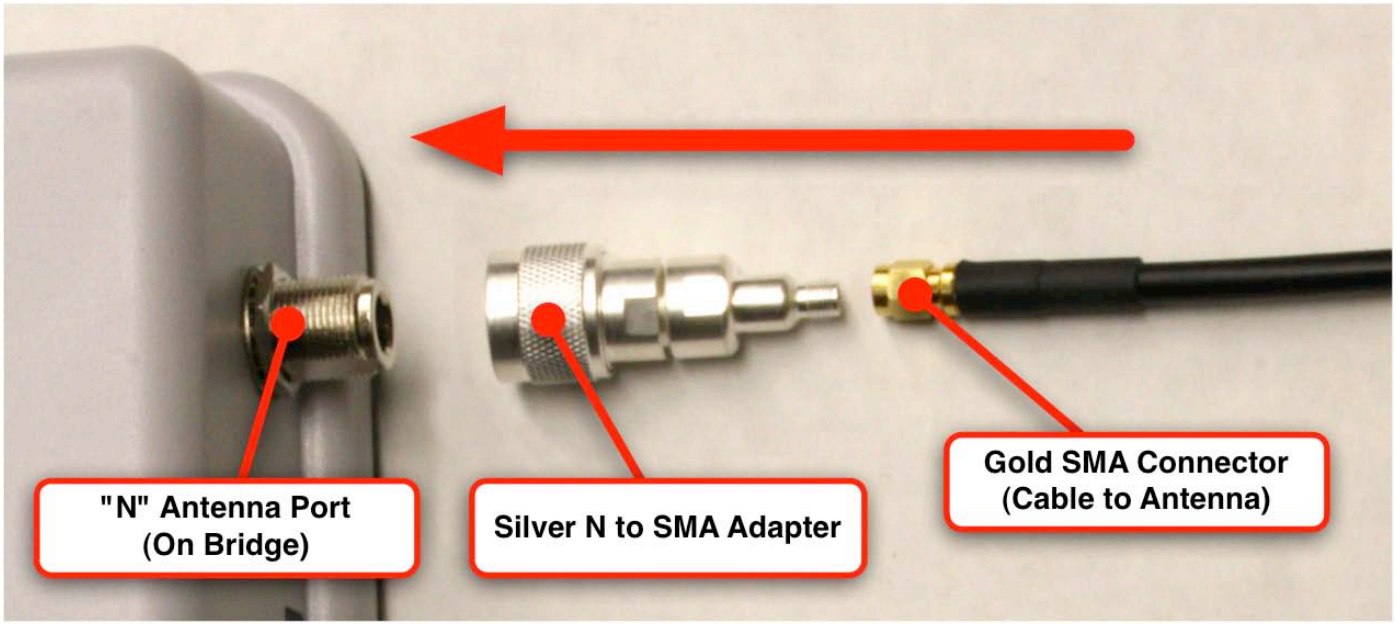
3: Connect the brackets together with the attached screws. The bridge/router should be installed so that the antenna and Ethernet connectors point down.



(mounting bracket from vertical surface to the bridge router)

2: Attaching the antenna cable to the bridge/router

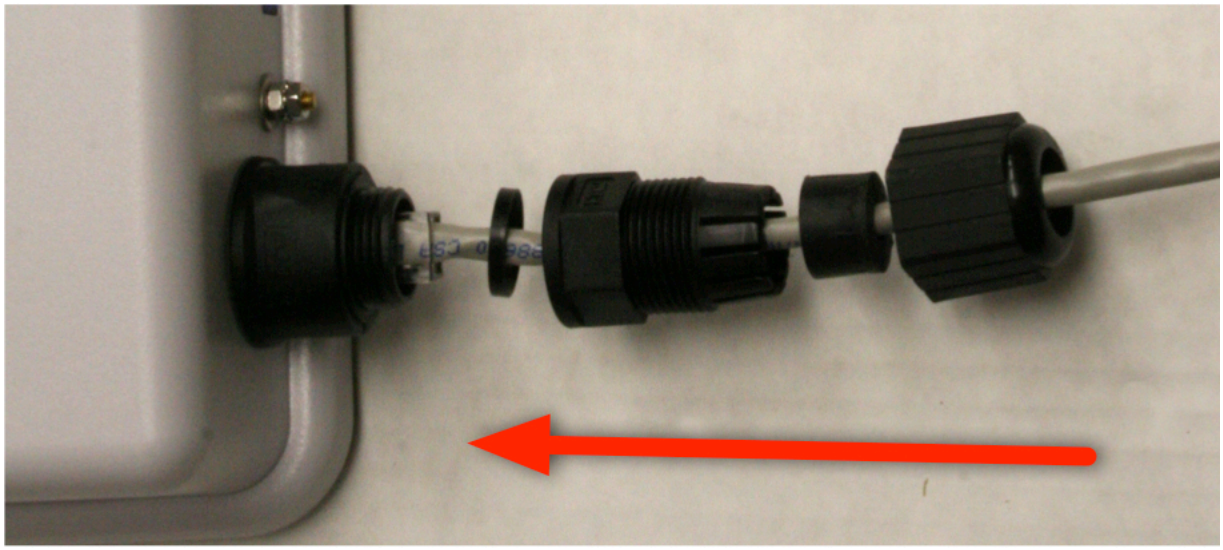
The connector on the bridge/router is an N male type. We have included an adapter that connects to the bridge and will accept our standard SMA cable. Connect this adapter to the bridge/router as shown below:



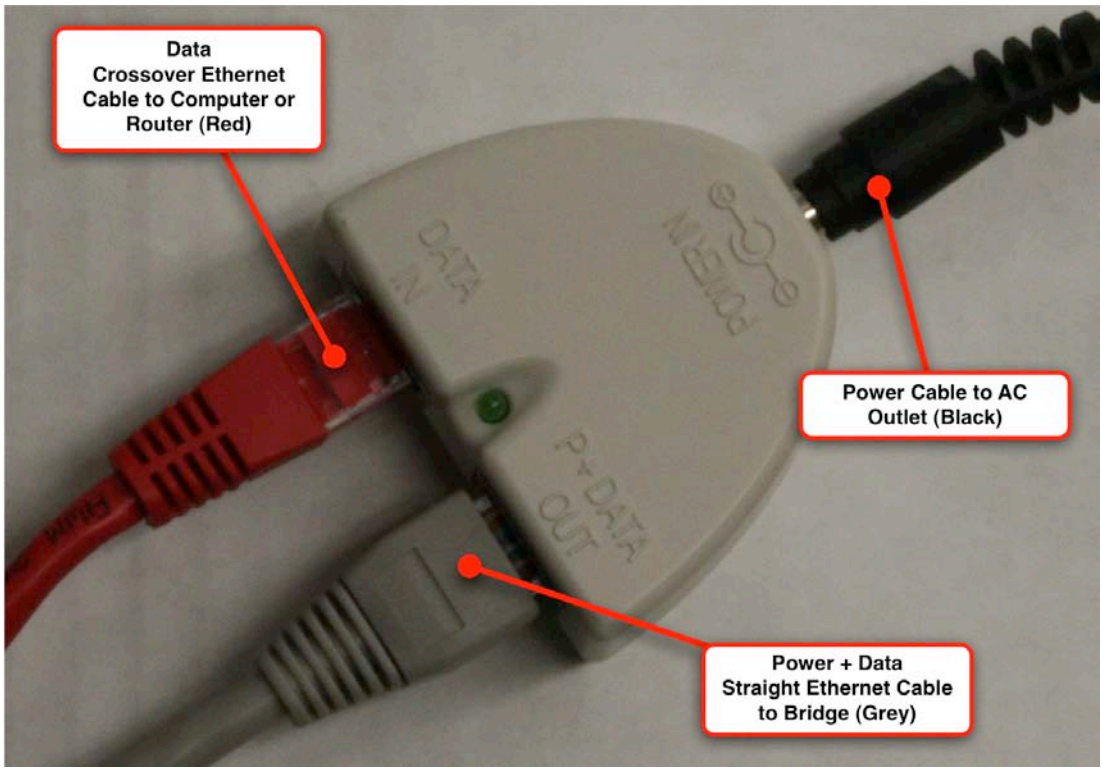
Attach SMA adapter from the long range antenna cable to the adapter on the bridge/router unit via the antenna connector on the rear of the unit. Hand tighten only. Attach the coaxial seal around all RF connectors and then seal with silicone or a superior grade of electrical tape.

3: Attaching the Ethernet Cable to the Bridge

Feed one end of the ethernet cable through each of the plastic and rubber grommets. Each grommet fits inside the next and should be closed completely as seen in the image below



a) Plug Ethernet cables into the PoE adapter. Your Crossover cable (the cable with mismatched heads) should connect your computer to the PoE adapter, and the Straighthrough cable (the cable with matching heads) should connect the PoE adapter to the bridge.



WARNING: make sure you are using the correct cable between the PoE adapter and your bridge hardware. USING THE CROSSOVER INSTEAD OF THE PASSTHROUGH WILL DAMAGE YOUR BRIDGE.

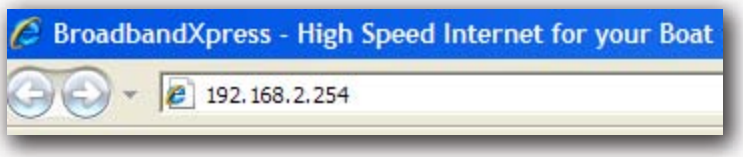
b) Assemble the power adapter and connect it to your PoE adapter.

The lights on the front of the unit should blink and after a few moments the Power and LAN lights should go solid.

Your bridge came Pre-configured it should automatically connect to BBX for you, simply open your web-browser and after a short delay you should be redirected to the BBX login screen.

SECTION 2 – INITIAL BRIDGE SOFTWARE SETUP TO CONNECT TO BROADBANDXPRESS OR ANY PREFERRED WIRELESS INTERNET PROVIDER

1: Open up your browser. Type the following ip address into the address bar: 192.168.2.254



2: You will be prompted to enter the username and password assigned to your bridge. The default address username and password is as follows:

Username: admin
Password: admin

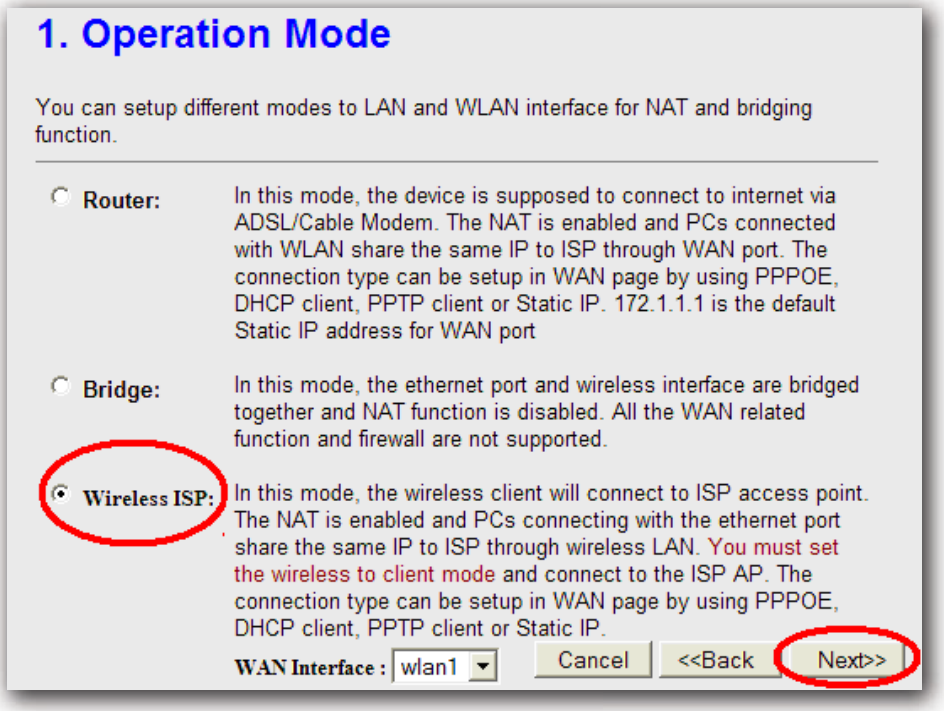
(security page prompt to access the bridge/router)

Once the correct username and password have been entered you will be taken to the setup wizard. Follow the progression of screens below to set the unit up via the wizard. If you want the unit to connect to BBX, simply match the information on your screen to the information shown below.

After entering the username and password you will get the setup wizard. For all customers of BroadbandXpress,we have preconfigured the units for your easy use. For all others follow the steps below:

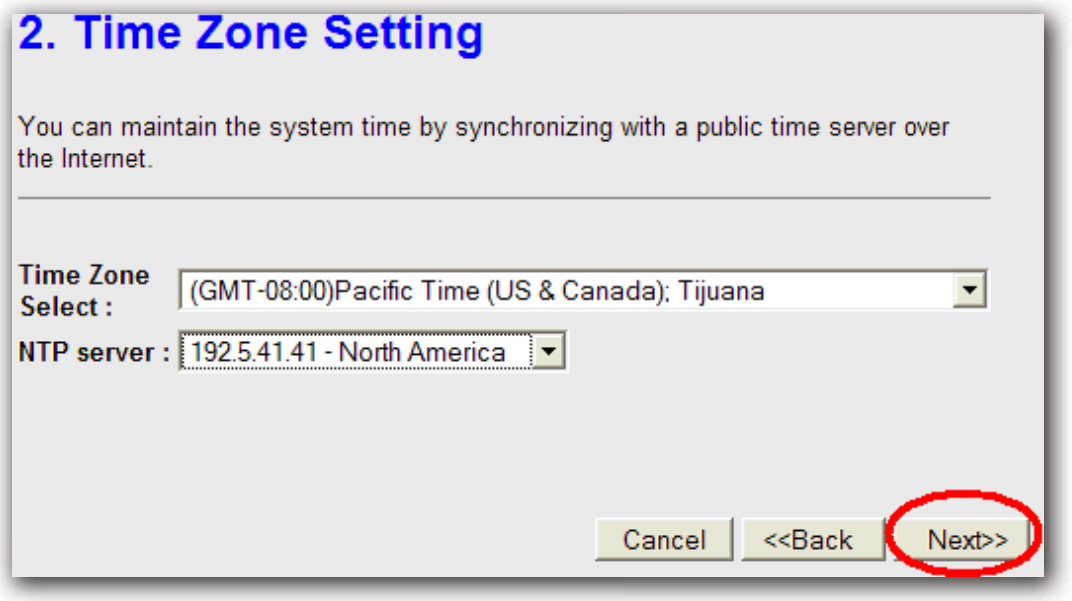
STEP 1: select next
Begin by clicking “Next” on the initial wizard explanation screen.

STEP 2:
select Wireless ISP
select next



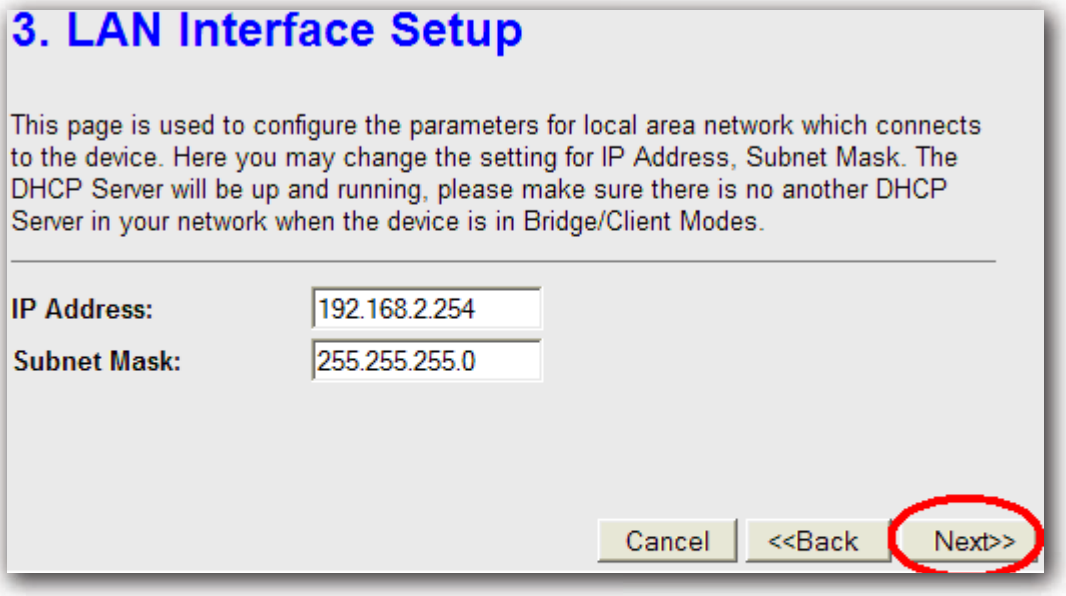
WARNING: If you select the "Bridge" option you will be unable to access these configuration screens again without hard-resetting the unit (via the button on the back).

STEP 3: select next:

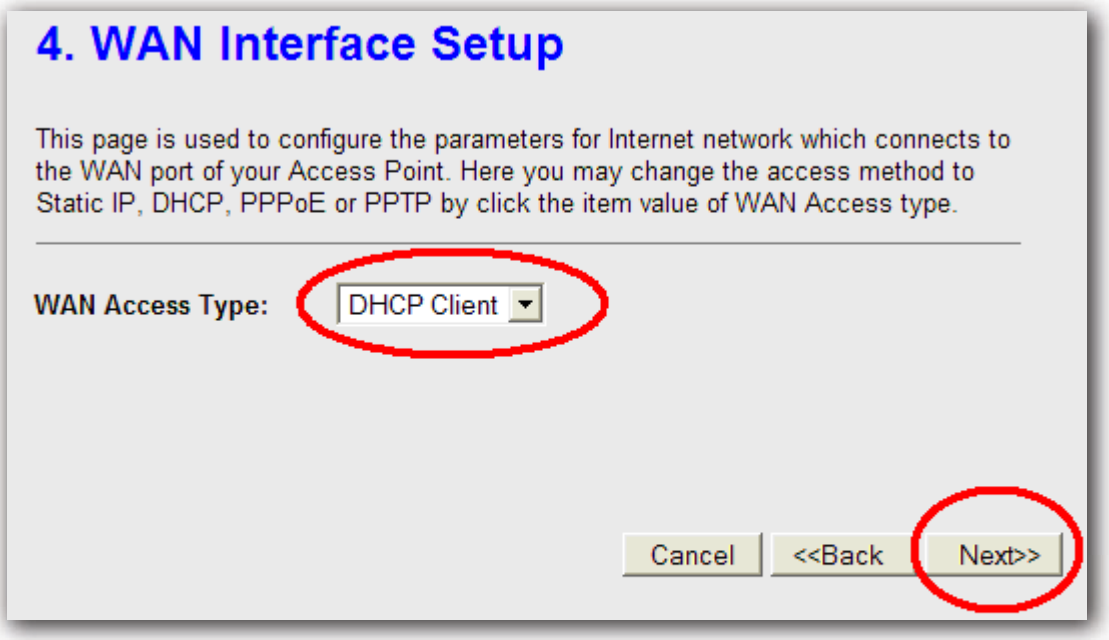


STEP 4: select next

The LAN interface screen allows you to select the configuration IP assigned to your bridge. This info should NOT be changed.

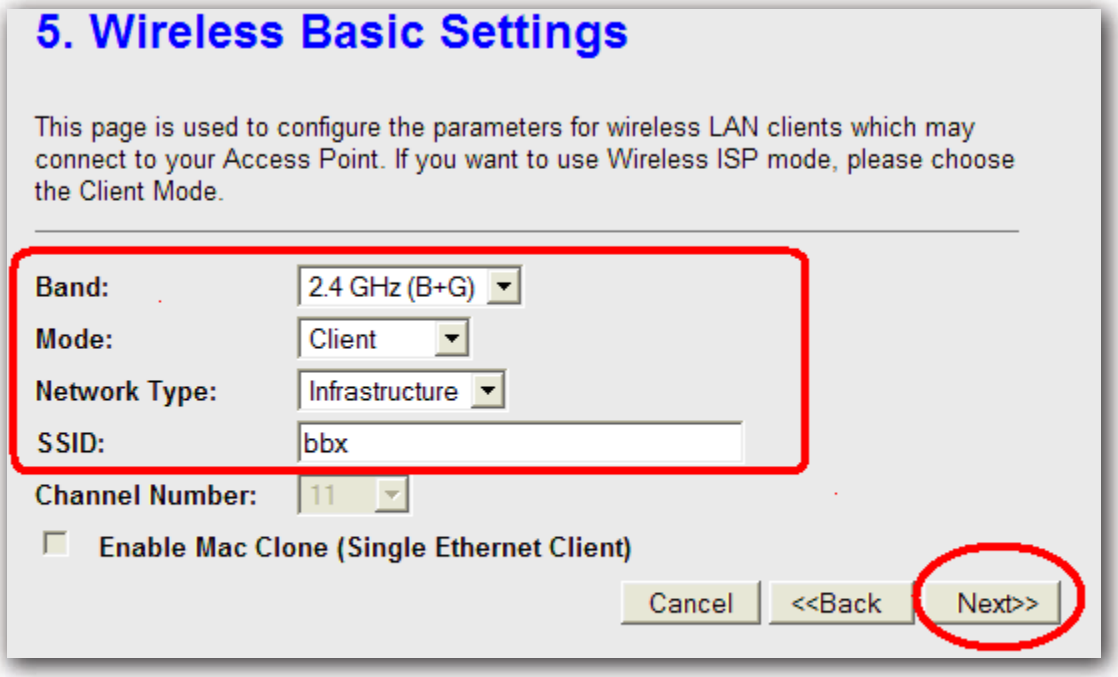


STEP 5:
WAN ACCESS TYPE: select DHCP Client
Select next



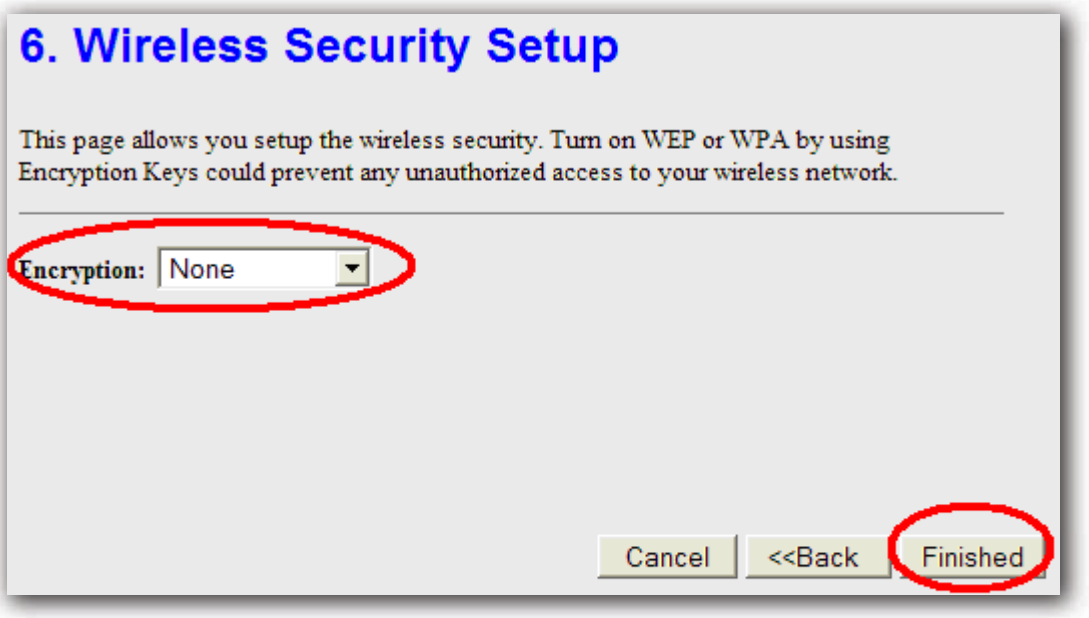
STEP 6:
TO SELECT A NETWORK TO CONNECT WITH AS A DEFAULT
Band: select 2.4 GHz(B+G)
Mode: select Client
Network Type: select infrastructure
SSID: Select your desired network(we have set your network as bbx). It can be changed here or under scan mode below:

IMPORTANT: SSIDs are case-sensitive and must be entered EXACTLY as they are transmitted.



STEP 7:
select none

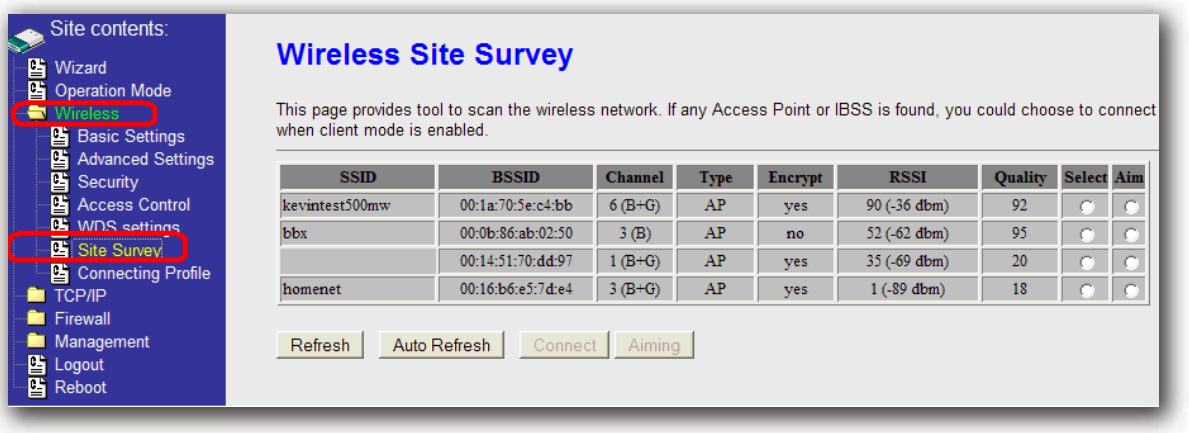
Select finished
The Wireless Security Page allows you to enter the appropriate pre-connection encryption key for the network you wish to join. Most commercial wireless networks do not use encryption.



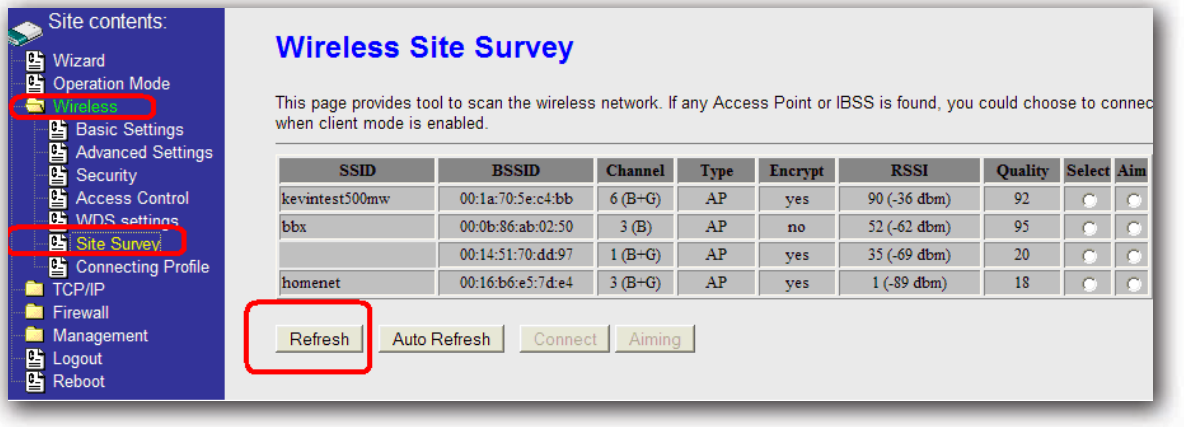
YOUR BRIDGE IS NOW SET TO CONNECT TO THE BBX NETWORK OR ANY OTHER NETWORK OF YOUR CHOICE.

Section 3 - SCANNING FOR OTHER NETWORKS

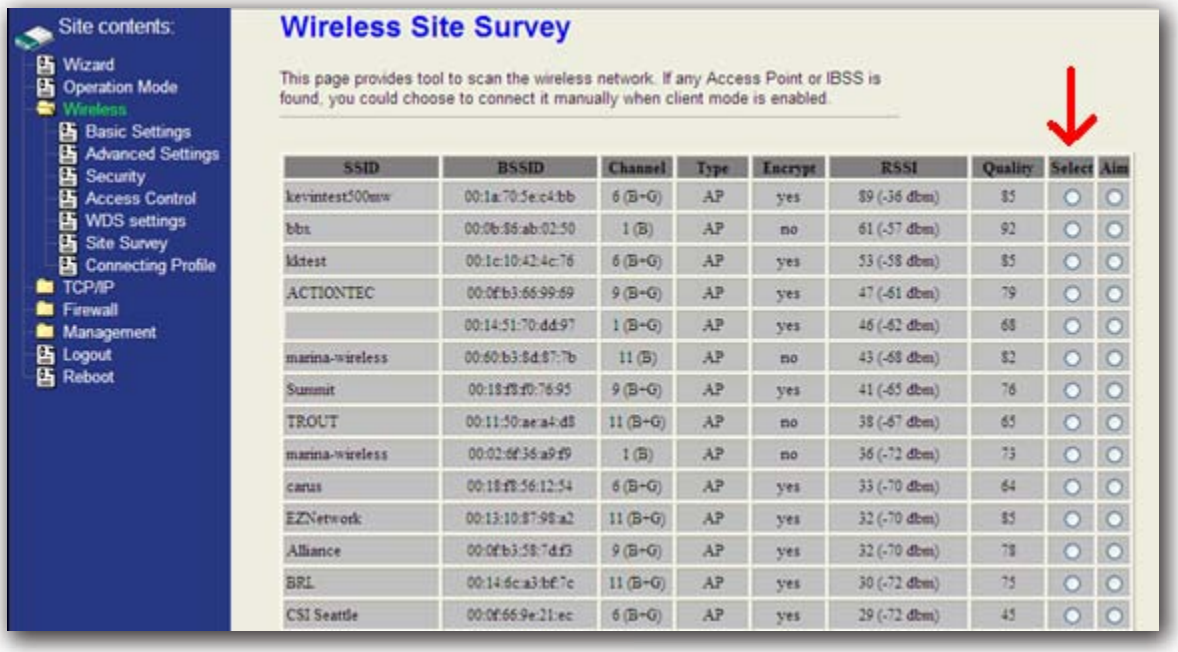
Step 1: Open up your browser. Type 192.168.2.254 in your browser to access the web interface of the bridge
Step 2: Click on the labeled Wireless on the left sidebar.
Step 3: Select Site Survey on the left sidebar



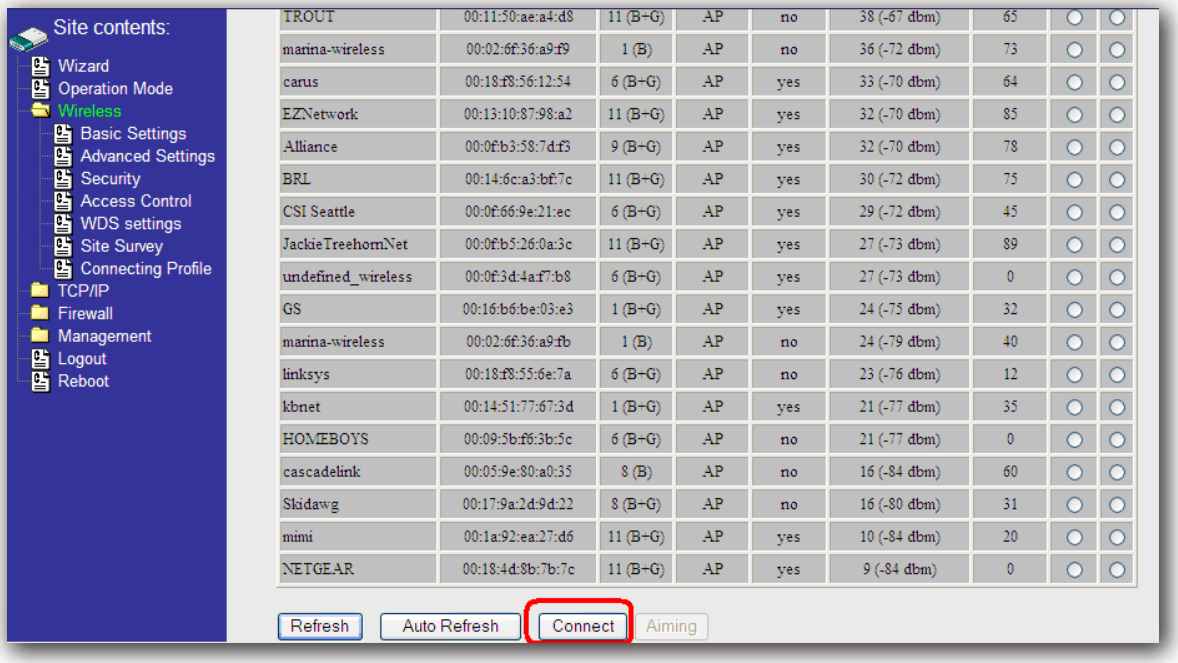
Step 4: select refresh



Step 5: you will now be able to view all the available networks:



Step 6: hit select on the desired network and scroll to the bottom and hit connect:



Step 7: You will get notice that you have successfully connected to the network of choice.

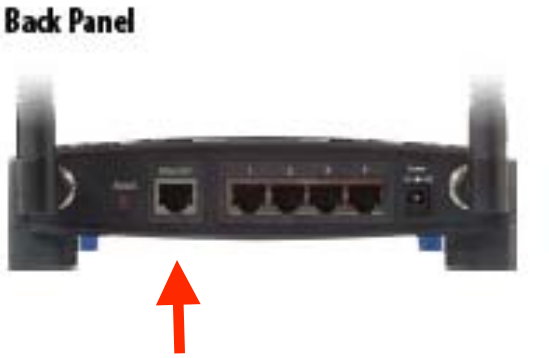
Step 8: Logout from the bridge


Site contents:
Wizard
Operation Mode
Wireless
Basic Settings
Advanced Settings
Security
Access Control
WDS settings
Site Survey
Connecting Profile
TCP/IP
Firewall
Management
Logout
Reboot
Logout
This page is used to logout.
Do you want to logout ?
Apply Change

Section 4 - INSTALLING A WIRELESS ROUTER WITH THE NETWORKED BOAT

Any standard wireless router should work with the bridge router. We standardize using the Linksys products due to their universal availability. BroadbandXpress typically will ship a router with your bridge to provide a complete package. In the event that your router was not preconfigured by BBX ensure that wireless security is enabled.

Critical Warning:
It is paramount to secure your wireless router with wireless encryption. Failure to secure a router will allow outsiders to access your bridge router and may disrupt your service.



Step 1: Plug the cross over ethernet cable from the Data In jack of the Power over Ethernet injector to the Internet jack of the router as shown above.

Step 2: Connect to your wireless router via your wireless adapter of choice.

Step 3: Open a browser and you will connect to the selected wireless provider that you have set in the bridge/router.

Step 4: To access the Bridge/router simply type 192.169.2.254 in your browser.

CONGRATULATIONS, YOUR NETWORKED-BOAT SYSTEM IS NOW SET UP CORRECT TO WORK WITH THE BBX NETWORK.