

BAD BOY Xtreme

Hi-Power Wi-Fi Antenna

Installation and Operation Guide

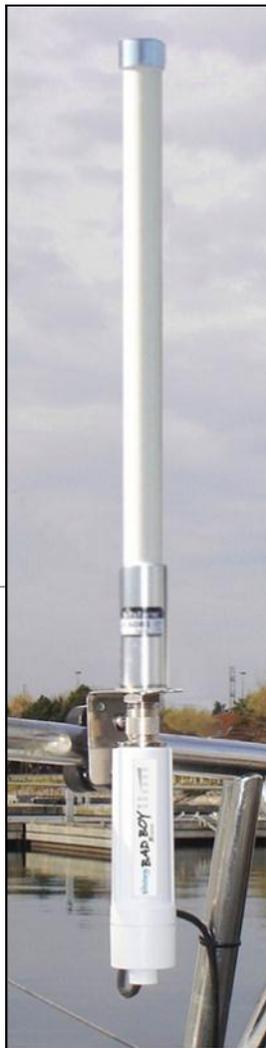
Models covered:

BB-XARC75 (Rail / Flat Surface)

BB-XASC75 (1-14 Adapter)

BB-XABC75 (Backstay)

BB-XAPC75 (Pole)



Rail mount shown

IMPORTANT

Before You Install Your System

Serial Number: _____

Install Date: _____

Your serial number will be found under the end cap of your **Xtreme** and is located under the bar code. You can also find it on the Status tab in Xtreme's management application. You may be asked to provide your serial number when requesting support assistance.

Your BAD BOY Wi-Fi system has been completely tested prior to shipment going through multiple individual and system verifications including Wi-Fi connectivity. Before cutting your cable or installing your system, take a few minutes to bench assemble your BAD BOY components. Using your computer:

1. verify system operation,
2. familiarize yourself with its behavior when operating, and
3. understand what to expect after installation.

Because a BAD BOY system can be installed in locations not easily accessible, do not proceed with installation until you have verified that your system is operating correctly. Contact us for assistance.

System failures after installation are usually caused by applying too much corrosion inhibitor to the cable's connector or incorrect wiring of the Junction Box. Carefully check that the cable's colour coded wires match up correctly in your Junction Box. Your warranty may be affected.

Note: Failure to bench test will indicate your acceptance that your system was completely and fully operational prior to installation.

Declaration of Conformity

Bitstorm declares that this Bitstorm BAD BOY device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesirable operation.

Record your management tool login credentials:

Username: _____

Password: _____

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Package Contents

Please check and ensure that you have all of the following items:

- ✓ One BAD BOY Xtreme Hi-Power Wi-Fi Device
- ✓ One POE Injector and 6 foot (1.8m) DC Power Cable
(M-POE-DUO-S15.5 also includes 100-240V AC Adapter)
- ✓ One Antenna with Mounting Nut
- ✓ One Mount (Rail/Flat surface, 1-14 Adapter, Backstay or Pole)
- ✓ One 75 foot (23m) Outdoor Rated, PVC Jacket, UV Protected Cable
- ✓ One 10 foot (3m) Indoor Ethernet Cable
- ✓ One End Cover and Grommet (located under Xtreme's end cover)
- ✓ One Packet of Connector Corrosion Inhibitor (located under end cover)
- ✓ One Cable Splicing Junction Box with Punchdown Tool & 2 Tie Wraps
- ✓ This Installation and Operation Guide

Power Injector DUO

The Power Injector DUO (DUO) provides power to BAD BOY Wi-Fi devices via Power-over-Ethernet (PoE). This is an ethernet specification allowing powering of remote devices without the need of a separate power cable. Two DUO models are available:

M-POE-DUO-S15.5 (provides a regulated 15.5Vdc output)

M-POE-DUO-NS (provides filtering for the voltage being supplied)

Both models provide circuit protection for shorts and reversed polarity.



Chapter 1 - Bench Test

- Check off items as completed.

Step 1

- Remove the protective cap from Antenna connector and attach to Xtreme. Finger tight is adequate. **Do not over tighten.**

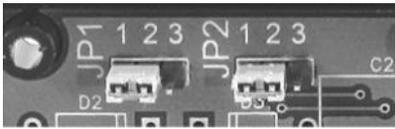
Step 2 (Do this step if an optional Unleashed or Unleashed HP is included as part of your system)

DUO comes pre-configured with Port 2 PoE disabled. If Unleashed is included, power injection must be enabled on Port 2. To enable Port 2 power:

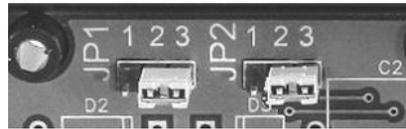
- Open the case by removing the four screws from the back of the Power Injector DUO.
- Move **BOTH** jumpers **JP1** and **JP2** to position **1-2** to enable power on Port 2. Jumpers come factory configured to positions **2-3** which disables power on Port 2.

NOTE: Both jumpers must be positioned identically.

- Close case and refasten four screws on back.



Port 2 Power Enabled



Port 2 Power Disabled

Step 3

- Connect power to DUO using either AC or DC.
- AC** Plug in an AC Adapter (included with M-POE-DUO-S15.5) with proper rating and insert barrel plug into DUO's power connector.
- DC** Connect the Power Cable (included) to an appropriate power source. Connect the red (or white striped) wire to positive(+) and the solid black wire to negative(-). Insert barrel plug into DUO.

Verify that the Green LED is lit on Port 1 (and Port 2 if enabled in Step 2).

Note: If Yellow Power Fault LEDs illuminate, it indicates a reverse polarity connection. In this condition, circuit protection will prevent power being applied to either Port 1 or Port 2.

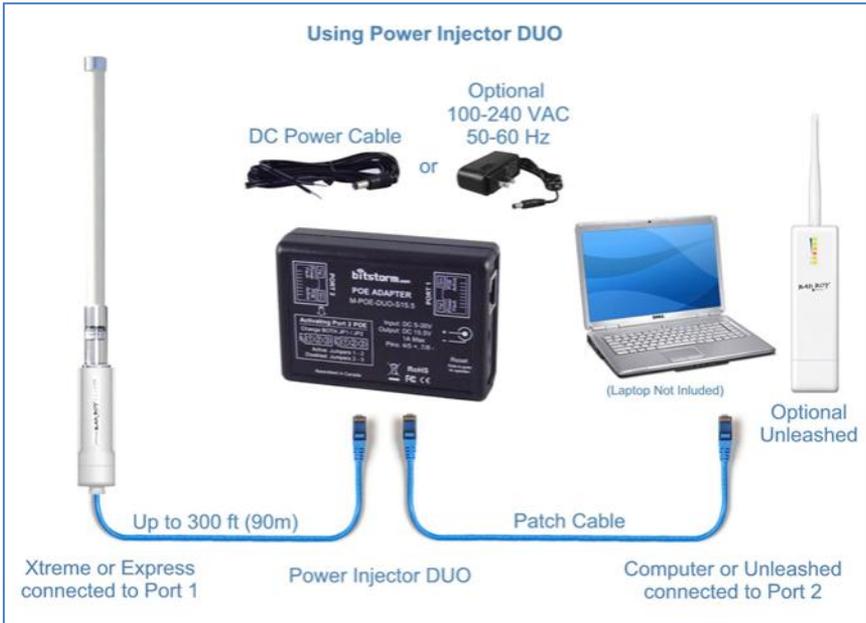
Step 4

- Remove bottom cover from Xtreme and plug in 75 ft (23m) black cable. Plug other end of cable into POE Adapter Port 1. See illustration previously for location. Note: Xtreme requires power to operate and should be connected to Port 1 which always supplies power.

Caution: Do not connect anything other than Bitstorm BAD BOY devices to Port 1.

Step 5

- Plug patch cable (included in kit) into Port 2 of the DUO. Connect other end to computer, networking devices or optional Unleashed. Observe that the green LAN LED illuminates on Xtreme.



Note: If using a computer or networking device, ensure Port 2 green power LED is NOT lit.

Step 6

- Continue to Chapter 3 - Operation. Surf the web to verify your system is operating correctly. If not, check troubleshooting section in the back of this guide. (Appendix F - Troubleshooting).

Proceed with remainder of installation only after correct operation has been determined.

Chapter 2 - Installation

- Disconnect power.
- Determine the best location for the unit. It can be any place convenient or suitable with better being higher and away from obstructions. Your installation choices will vary depending on the mount included in the kit.
- Using the items included with your mount kit, attach the mount such that the antenna will be vertical.

Note: Not all parts supplied may be needed. Depending on your setup, different screws, anchors, etc. may be required. When installing at the top of a mast with a wind vane, ensure that the installation will not interfere with wind vane rotation.

Note: If installing at masthead, rotate Xtreme such that its LEDs face toward the mast thus hiding them. On a dark night, its bright LEDs may be confused for masthead lights by other boats.



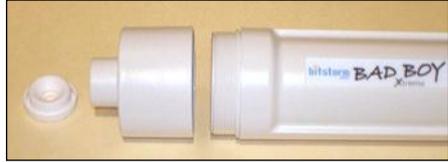
Some remaining steps may not be required

- Estimate the amount of cable needed to get from the mounting location to the deck transit location (the place where the cable will go through the deck) and then to a convenient place for splicing below deck. Ensure that sufficient cable length is remaining for the distance to where the Power Adapter is to be located and cut the cable. If no through deck fitting will be used or if it is large enough to allow the cable connector to pass through, no cutting may be required.

Note: Do not use excessive force when pulling the cable through conduits, etc. Avoid pulling the cable's connector through conduit. Do not make sharp bends in the cable. When changing direction, bends should never be sharper than the round edge of a standard screw driver handle. Avoid the use of a staple gun – if the insulation is pierced, the cable can be rendered useless. The cable transfers digital data, so there is no need to remove excess cable. Bitstorm recommends coiling and securing any extra cable.
- Route the remaining cable to the location where the Power Adapter will be.
- To prevent connector contact corrosion, apply corrosion inhibitor (included)

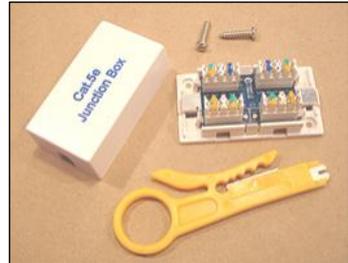
sparingly to the contacts of the device cable end connector. **Note: A thin coating of corrosion inhibitor is all that is needed. Too thick may result in floating connector pins and poor connections.**

- Put the Xtreme's cable end through bottom cover and plug into Xtreme. If convenient, verify that Power LED will light. Investigate if it does not illuminate.



- Screw the bottom cover on just snug. **Note: Do not over tighten.** Seal the cable opening in the bottom cover using the white grommet (included) which has a split (look closely for it) to allow it to be added onto the cable. Check that the grommet is seated fully to ensure a weather tight seal.

- If cable was cut, locate the included Junction Box kit. Using the included tool, strip back about 1 inch (2.5cm) of the outer jacket from both cable ends. Rotate the tool around the cable to make a clean cut. There is no need to strip the insulation from the individual wires. Refer to photo.



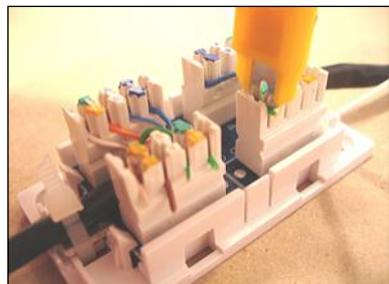
- Connect the wires to the spade terminals using the tool's metal tip. Lay the wire onto the spade and push down with the tool. The spade will pierce the insulation thus making electrical contact. Ensure that both cables have the same colour wire connected to the same pin number on both left and right sides. Pin numbers may be found on the actual block or on the cover. If the Junction Box has wire colours shown next to the spades, these can be used as a guide as well. Refer to photo. **Note:** Junction Box may not be exactly as shown. A suggested wiring order is:



- | | | | |
|---|---------------|---|---------------|
| 1 | Orange/White | 5 | Blue / White |
| 2 | Orange | 6 | Green |
| 3 | Green / White | 7 | Brown / White |
| 4 | Blue | 8 | Brown |

- Secure the cable into the Junction Box using the tie wraps to prevent stress and snap or screw the cover in place.

- Connect to a power source: AC Adapter or DC Power Cable. For Power Cable: red (or white stripe) is positive(+) and solid black is negative(-). For DC voltage limitations, refer to your included Power Adapter for input voltage requirements. Observe that the green



LED is lit on Port 1.

NOTE: If Port1 and Port 2 yellow LEDs are lit, the DC Power Cable connections are reversed.

- Plug the Xtreme's cable into Port 1. Observe green Power LED on Xtreme.
- Plug one end of a patch cable (included) into Power Adapter Port 2 and the remaining end into your computer or Unleashed. Observe green LAN LED on Xtreme (and Unleashed if included).
- Refer to Chapter 3 Operation and verify everything is working correctly.
- Once everything checks out, complete any remaining tasks such as tie wrapping cable (if required), silicone sealing transits (if required), etc.

Congratulations - you should now be surfing the web.

Chapter 3 - Operation

Step 1

Power up the BAD BOY system. It will take about 10 seconds after power is applied for the system to become fully operational.

Without BAD BOY Unleashed option installed:

Turn off Wi-Fi devices in your computer to prevent multiple simultaneous Wi-Fi connections. Refer to your computer manual for how to do this. Ensure that your computer's Ethernet port is set to use DHCP. Refer to your computer's manual or Appendix E - Computer Ethernet Port Settings for help on how to check settings.

With BAD BOY Unleashed option installed:

Connect computer to Unleashed via computer's built-in wireless. Refer to Unleashed guide for more information on connecting your computer to Unleashed.

Step 2

Open a browser and disregard any errors that may appear. Enter '**badboy.xtreme!**' in the address bar and press 'Enter'. Alternatively, '**xtreme.wifi!**' or '**10.20.30.1!**' can also be used.



Fig 1

See Fig 1. When the login screen appears, enter the default **Username: 'badboy'** and **Password: 'badboy'** (without the quotes) and select the country you are in.

Note: The Username and Password can be changed on the System tab to your preference.

Step 3

Refer to Fig 2. On the Link Setup tab, select a hotspot from the list or enter an access point name into the Hotspot Name field [1]. Enter Wireless Security settings as required [2]. Select the country that you are in [3]. Finish by clicking 'Apply' at the bottom [4]. A progress bar will appear at the top of the screen.

Xtreme remembers access Keys that are entered for secure hotspots. By selecting a hotspot from the list, any previously entered Key will be retrieved. Any changes made to the Key value will be remembered. A Forget Hotspot button allows a remembered Key to be removed.

Note: With the **Auto Connect** button, Xtreme will automatically connect to the strongest unsecured Access Point (hotspot) that it finds. Keep in mind that the strongest signal may not be your best internet connection choice.

Note: Hotspots generally announce themselves typically every two minutes. Pressing **Refresh List** will add those hotspots that have announced themselves since the list was first populated.

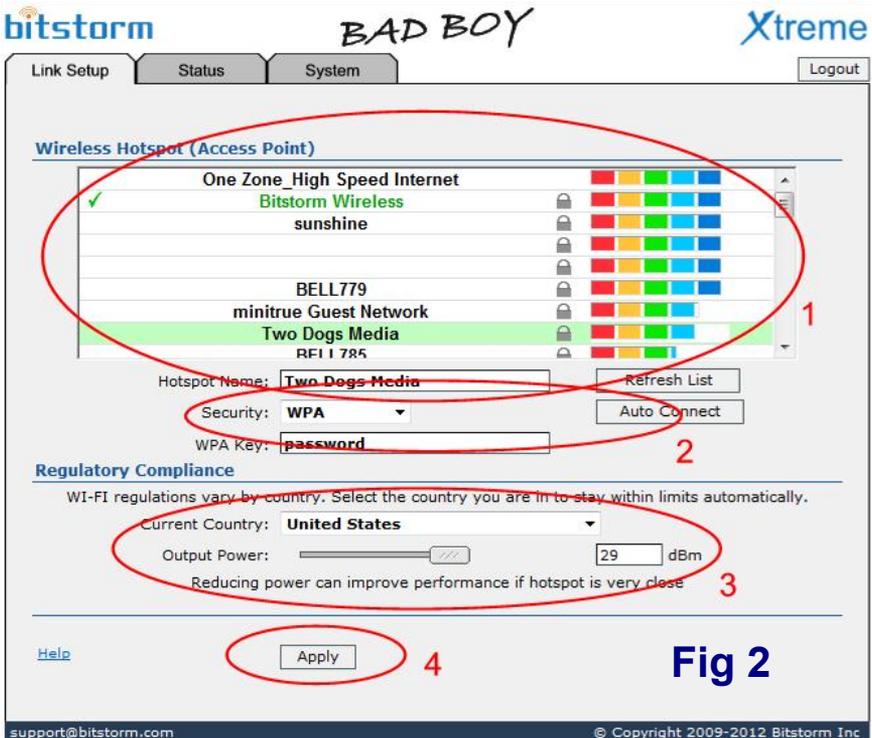


Fig 2

Step 4

When Apply has completed, the Status tab will be displayed. Connection progress will be reported. You may see status of 'Connecting', 'Authenticating', 'Obtaining IP Address', etc. See Fig 3.

Note: If connecting to an unsecured hotspot, additional authentication after connection may be required by the hotspot. To test for this after connecting to the hotspot, simply try to open a web page and see whether an additional authentication is presented by the hotspot. That page may include a request for payment for internet access.

Note: On the System tab, backups of the Keys database can be made. It is recommended to do this prior to using the Reboot or Reset to Defaults buttons since using these features will erase any previous remembered values. The restore feature allows backup Key values to be reloaded into Xtreme. This ability to backup and restore is also handy when moving Keys to another Xtreme or Express.

The screenshot shows the Bitstorm Xtreme web interface. At the top, there are logos for 'bitstorm' and 'Xtreme', and a handwritten 'BAD BOY' in the center. Below the logos are navigation tabs: 'Link Setup', 'Status', and 'System'. The 'Status' tab is active, showing a 'CURRENT STATUS' of 'CONNECTED - Additional authentication may be required'. The interface displays various connection parameters such as Access Point SSID, Signal Strength, Channel, Security, TX Rate, Hotspot MAC, WI-FI IP, Local MAC, and Local IP. Below this, there are buttons for 'Clients...', 'Wi-Fi Info...', and 'Throughput...'. A 'STATISTICS' section shows data for Bytes, Packets, and Errors for Received and Transmitted data. An 'ERRORS' section shows counts for various error types like Rx Invalid NWID, Tx Excessive Retries, etc. A 'Help' link is visible at the bottom left. The footer contains the email 'support@bitstorm.com' and the copyright notice '© Copyright 2009-2013 Bitstorm Inc'.

Fig 3

Appendix A - Specifications

Output Power with Antenna:	Up to 36 dBm (4W) EIRP max
Receiver Sensitivity:	up to -98 dBm
Wireless Range:	Line-Of-Sight, >5 miles (>8 km)
Operating Temperature:	-4°F to +158°F (-20°C to +70°C)
Operating Humidity:	5 to 95% Condensing
Weatherproof:	IP65
Outdoor Installation:	Yes
Voltage Input (DUO-NS):	10-20 Vdc, Max 2A
Voltage Input (DUO-S15.5):	5-30 Vdc , Max 5A
Power Method:	PoE (pairs 4 & 5: +V, 7 & 8: return)
Power Consumption:	Typical: 3W (~250mA), Max: 8W (~700mA)
Xtreme Device Size:	6.5" x 1.5" (16.5cm x 4cm)
RoHS:	Compliant
Shock and Vibration:	ETSI300-019-1.4
Wireless Approvals:	FCC Part 15.247, IC RS210
Controlled via:	Web Browser (no software installation needed)
Radome Size:	16" x .6" (41cm x 1.6cm)
Outdoor Cable Type:	75 feet (23m), black, UV protected, PVC jacket
Junction Box:	Included with punchdown tool
Security:	WEP, WPA, WPAPSK, WPA2, WPA2PSK
Upgradeable:	Yes - Firmware
Operating System:	All - Windows / Mac / Linux / etc.
PCB Conformal Coating:	Yes - Acrylic
Wireless Modes:	Wireless Modes B and G

Appendix B - Xtreme LED Indicators

Signal Strength:

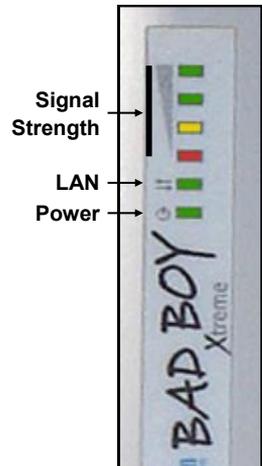
Displays the signal strength of a hotspot when connected to it.

LAN:

Illuminates when a communications link is established via the cable. May blink indicating LAN activity. For possible causes of failure associated with this indicator, see Appendix F - Troubleshooting.

Power:

Indicates that power is being applied. Does not provide any other indications of device operation.



Appendix C - Power Injector DUO Specifications

	M-POE-DUO-NS	M-POE-DUO-S15.5
Injector Power Input:	10-20 Vdc	5-30 Vdc
Injector Power Output:	Input - .5V, 2A max	15.5 Vdc, 1A max
Output Ripple:	Capacitor Filtering, Smoothing	< 80 mV
Output Short Circuit Protected:	Yes – internal 2A fuse	Yes – protection circuit limited to 5A
Power Reverse Polarity Protection:	Yes – yellow LED indication	
Thermal Shutdown:	No	Yes
Efficiency:	N/A	up to 90%
Port 2 Power Injecting (PoE):	Yes – enabled / disabled by jumpers	
Port PoE Pins:	Positive(+) 4 & 5, Negative(-) 7 & 8	
Startup Delay:	None	approx. 2-4 seconds
AC Adapter:	Optional	Included, 100-240 Vac North American Style
DC Power Cable:	Included, 6 foot (1.8m)	
Dimensions:	3.6" x 2.6" x 1.1" (9.2cm x 6.6cm x 2.8cm)	
Remote Reset:	No	Yes

Appendix D - Remote Reset (Only available on model M-POE-DUO-S15.5)

A reset allows settings to be restored to a known state. For example, this can be useful to restore username or password to default values. To perform a Reset operation, do the following (read all instructions first):

- 1) The DUO will send a signal to perform a remote reset to all connected devices. Unplug the cables of any device that you do **NOT** want to have reset. Leave connected the device(s) that you wish to have reset.
- 2) Power on and ensure devices have had enough time to fully start.
- 3) Using a small screw driver or other flat ended, **non sharp** object, insert it into the slot until you feel and hear a click. **Note: Do not use force!**
- 4) Hold the reset button depressed for at least 30 seconds and then release. If the button becomes unpressed during this time, cycle the system off and on, and wait 30 seconds before trying again. Disregard any LED patterns

displayed on connected devices.

- 5) Power off. Tip: You can simply remove the barrel power plug from DUO. Verify that the Port's green power LED turns off.
- 6) Reconnect power and wait sufficient time for the devices to fully restart. Your Xtreme should now be restored to original default settings.



Appendix E - Computer Ethernet Port Settings

Accessing the settings for your computer's Ethernet port are described here for various operating systems. Please keep in mind that as revisions to operating systems are released, exact naming of buttons and fields may change. As always, use your computer's User Guide as your primary source of information.

XP: 'Start' > 'Control Panel' > 'Network Connections'. Right click your adapter, select 'Status'. Click 'Properties' then scroll the list, select 'Internet Protocol (TCP/IP)' and then click 'Properties'. Ensure that the 'Obtain an IP address automatically' and 'Obtain DNS server address automatically' radio buttons are selected.

Vista: 'Start' > 'Control Panel' > 'View network status and tasks' under 'Network and Internet' > 'View Status' > 'Properties' then scroll the list, select 'Internet Protocol Version 4 (TCP/IPv4)' and then click 'Properties'. Ensure 'Obtain an IP address automatically' and 'Obtain DNS server address automatically' radio buttons are selected.

Windows 7: 'Start' > 'Control Panel' > 'View network status and tasks' under 'Network and Sharing Center' > 'Change adapter settings'. Right click on 'Local Area Network' > 'Properties' then scroll the list, select 'Internet Protocol Version 4 (TCP/IPv4)' and then click 'Properties'. Ensure that the 'Obtain an IP address automatically' and 'Obtain DNS server address automatically' radio buttons are selected.

Linux: 'System' > 'Preferences' > 'Network Connections'. On the 'Network Connections' screen, select the adapter and click 'Edit'. Select the 'IPv4 Settings' tab and ensure that 'Automatic (DHCP)' is selected.

Mac OS X: From the Apple menu, select 'System Preferences'. Click 'Network' icon. In the Location drop-down list, select 'Automatic'. In the 'Show' drop-down list, select Built-in Ethernet. Select the TCP/IP tab. Configure TCP/IP to use DHCP. (Mac OS X v10.2: In the 'Configure' drop-down list, select 'Using DHCP', Mac OS X v10.3: In the 'Configure IPv4' drop-down list, select 'Using DHCP'). Click 'Apply' button.

Mac OS 8/9: From the Apple menu, select 'Control Panel'. Select 'TCP/IP'. If a window opens with the message "TCP/IP is currently inactive", click the 'Yes' button. In the 'Connect Via' drop-down list, select 'Ethernet'. In the 'Configure' drop-down list, select 'Using DHCP Server'. Close the TCP/IP(LAN) window. Click 'Save' button.

Appendix F - Troubleshooting

LAN LED Not Illuminating

1. Also no Power LED. Ensure that power is being applied. Check fuse in power injector M-POE-DUO-NS.
2. Cable seating. Check that both ends of the cable are fully inserted into Xtreme and your computer.
3. Ethernet port disabled (if optional Unleashed is not being used). Check that your computer's Ethernet port is turned on. Refer to your specific operating system guide on how to do this.
4. Connector pin float. Too much dielectric on the connector. Clean away excess.
5. Junction Box incorrectly wired. Check to ensure that all wire colours are matched correctly.
6. For DUO-NS Power Adapter: Dirty start. Arching on switch or power socket contacts can cause Xtreme to sense numerous rapid power up and power down sequences and can cause lock up. Correct as required.

My Browser Reports An Error When I Open It

1. Cable not connected. Refer to 'LAN LED Not Illuminating'.
2. No internet connection. Your Xtreme has a built in web server that delivers your application to your laptop through your browser. Enter the Xtreme URL address into the browser's address bar. Refer to Chapter 3 - Operation.
3. Multiple Wi-Fi devices. If system does not include optional Unleashed, ensure the computer's built-in Wi-Fi is turned off. Refer to your computer's manual.
4. Incorrect Xtreme URL address entered. Ensure you type 'xtreme.wifi' - no 'e'.

Unable To Connect To Xtreme's Management Tool

1. No power. Refer to 'LAN LED Not Illuminating'.
2. Cable not connected. Refer to 'LAN LED Not Illuminating'.
3. Can't find server. If system does not include optional Unleashed, ensure the computer's built-in Wi-Fi is turned off. Refer to your computer's manual.
4. Incorrect IP address. If system does not include optional Unleashed, ensure your computer's Ethernet port is using DHCP.
5. Incorrect Xtreme address entered. Ensure that you type 'xtreme.wifi' - no 'e'.
6. Incorrect UID and PWD entered. Check that the user ID and password you are using are correct.

Settings Are Not Being Retained

1. Low voltage. Ensure that the power being supplied to Xtreme is as required by your Power Adapter.
2. Not clicking 'Apply'. Ensure that when a new hotspot is selected or setting changes are made, that you click the 'Apply' button.

Weak Signal Strength

1. Weak hotspot. Check that the signal being connected to is not weak. Sometimes, temporary objects can get in your line-of-sight to the hotspot.
2. Antenna connector loose or dirty. Check that the antenna N-Female connector is securely connected to Xtreme.

Note: The Reset button on the bottom of Xtreme next to the connector is a multi-function button and should never be used except under the direction of support staff. Improper use of this button could render your device inoperative. If this occurs, you may be required to return your Xtreme to Bitstorm for repair. The result of improper use of the reset button is not covered under warranty.

Warranty

1. All Bitstorm products are warranted against defects in material and workmanship for a period of one year from date of purchase under normal use. **Warranty does not cover damage caused as a result of improper installation or operation.**
2. The customer is responsible for delivering the defective product to the designated RMA address for repair or replacement.
3. At its discretion, Bitstorm will repair or replace a product that was found to be defective by Bitstorm during the warranty period.
4. This warranty does not cover labor cost for removing and reinstalling the device for repair nor for any expendable parts that are readily replaced in normal use.
5. The sole responsibility of Bitstorm under this warranty shall be limited to repair of this product, or replacement thereof, at the sole discretion of Bitstorm.
6. All RMA items shipped to Bitstorm must be freight prepaid. Bitstorm will pay the return freight via a service of Bitstorm's choice. Customer is responsible for payment of any shipping upgrades.

Limitation of Warranty

This warranty does not apply if product:

- a. has been opened and/or altered, except by Bitstorm technical personnel,
- b. has been painted in way shape or form,
- c. **has been damaged due to errors or defects in customer provided cabling,**
- d. has been subjected to abnormal physical or electrical stress, including lightning strike, misuse, negligence or accident,
- e. **has been improperly installed, including wiring errors or damage to cable during installation,**
- f. failure to apply supplied dielectric corrosion inhibitor to Xtreme's cable connector,
- g. has had removal of MAC address label (if one was affixed),
- h. has been loaded with incorrect firmware or attempted to have incorrect firmware loaded, or
- i. is inoperable due to improper use of the Reset button.

What information will be required?

1. Customer name, contact information, and shipping information.
2. Date and location of purchase (we may request a copy of the invoice as proof of purchase in certain, limited circumstance).
3. Problem description.
4. Serial number o MAC address of each unit (if available).
5. Troubleshooting actions taken so far.

***** International Customers *****

1. Customer to use their own shipping account when sending products back to Bitstorm.

Contact Us

address: **Bitstorm Inc.**
33 University Ave., Suite 1407
Toronto, Ontario, Canada M5J 2S7

web: **www.bitstorm.com**

phone: **1-647-724-8328**

skype: **bitstorm.inc**

email: **sales@bitstorm.com**
support@bitstorm.com

Hours: Monday to Friday, 8:30am to 5pm EST

IMPORTANT: If you are experiencing difficulties, please contact us first with any issues before returning this product to the retailer.

Options For Your *Xtreme*

Standard Marine 1-14 Adapter Mount

The 1-14 Antenna Adapter allows *Xtreme* to be mounted onto a standard 1" x 14 pitch threaded antenna fitting. Satin finish anodized aluminum.



Backstay Mount

Mount *Xtreme* onto a backstay. The angle of backstays does not vary significantly, so *Xtreme* can be added on any rig. Can be used with sloops, ketches, yawls, cutters, schooners, catamarans, trimarans, etc. Polished stainless steel finish with stainless steel screws, flat washers and stainless steel nylon inserted locking

Unleashed is the perfect addition to *Xtreme*

You've got your *Xtreme* installed and are connected. You take your laptop out to the cockpit dragging a cable along. You wish that you could cut that tether, that umbilical cord, that ball and chain. You want to be... **Unleashed!** Ideally suited where cabling to computers is undesirable or just not possible. It re-broadcasts the Wi-Fi connection from *Xtreme* forming your own private hotspot.

- ✓ Go completely wireless - no trailing cables
- ✓ Connect multiple computers and devices simultaneously
- ✓ No software to install - works with any computer, any operating system
- ✓ Supports all Wi-Fi enabled devices - laptops, iPhone, Android, iPad, etc.
- ✓ Creates your own hotspot area up to several thousand feet (Unleashed HP)

