

# User's Guide

**TAP-EX**

**HIGHPOWER™ TOUCH SCREEN  
WI-FI® RANGE EXTENDER**

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## *INTRODUCTION*

Thank you for purchasing this Amped Wireless product. At Amped Wireless we strive to provide you with the highest quality products through innovation and advanced technology. We pride ourselves on delivering products that outperform the competition and go beyond your expectations. If you have any questions please feel free to contact us. We'd love to hear from you and thank you for your support!

Email: [sales@ampedwireless.com](mailto:sales@ampedwireless.com)

Call: 888-573-8830

Web: [www.ampedwireless.com](http://www.ampedwireless.com)

## *GETTING STARTED*

### **Package Contents**

Check to make sure you have all the contents within your package:

- High Power Touch Screen Wi-Fi Range Extender
- Detachable High Gain Antenna
- Stylus
- Setup Guide
- CD: User's Manual & Installation Video
- Product Stand
- Power Adapter

## Product Description

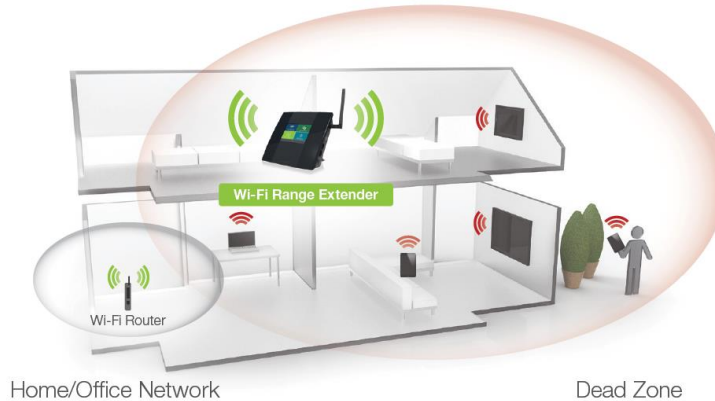
1. **LCD Screen:** 3.5" LCD touch screen. Displays the user interface for configuring the Range Extender as well as the status.
2. **Stylus:** Input tool that assists in navigating the LCD touch screen Menu.
3. **Antenna Connectors (ANT):** RJ-SMA antenna connector. Compatible with all antennas that have RP-SMA connectors.
4. **Reset:** Button used to reset device. Push down once to reboot, hold down for 5-10 seconds to reset to factory default settings.
5. **USB Port:** USB 2.0 Port used to attach USB storage devices, such as a USB flash drive or external hard drive, for file sharing.
6. **Wired Ports:** RJ-45 ports for connecting wired computers or network devices.
7. **Power (PWR):** Power adapter port. DC 12V 1A.



## SETUP GUIDE (TOUCH SCREEN)

### Find a Setup Location

The location of where you install the Range Extender is very important to how it will function. The optimal setup location should be somewhere no more than halfway between your Wi-Fi router and your Wi-Fi dead zone.



**IMPORTANT:**



PLACE THE **RANGE EXTENDER** IN A LOCATION WHERE IT CAN RECEIVE A STRONG SIGNAL FROM YOUR WIRELESS ROUTER.

This can be done before or after setup is complete. The Range Extender will save your settings.

### Power On the Range Extender



- a. Attach the included antenna.
- b. Attach the Power Adapter to the Range Extender's PWR Port and plug it into an available power outlet.
- c. The Amped Wireless logo will appear as the unit boots up, then the Dashboard screen will appear.



### Navigating the Touch Screen Menu

Before we begin, here are a few tips on how to navigate the Touch Screen Menu:



**Language Selection:** Tap the Globe icon, found on the bottom of the Settings screen, to change the language of the menu.



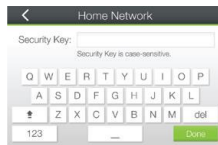
**Back Arrow:** Tap the Left Arrow, found on the upper left corner of many screens, to navigate back to the previous page.



**Home Button:** Tap the Home icon, found on the bottom of many screens, to return to the Dashboard at any time.



**Navigation Button:** Tap the Left or Right Arrow to navigate between multiple pages for one screen. The dots in this example indicate there are 3 pages to see.



**Keyboards/Keypads:** Tap on a Blank Field to access a keyboard or keypad for entering in information such as your Network ID and Security Key.

### Welcome to the Dashboard

The Dashboard will provide you with the current status of the Range Extender.

Tap **SCAN** to find an available network to extend.

During the setup process, the wizard will refer to the *Home Network* and the *Extended Network*:

The *Home Network* is the network you are trying to extend.

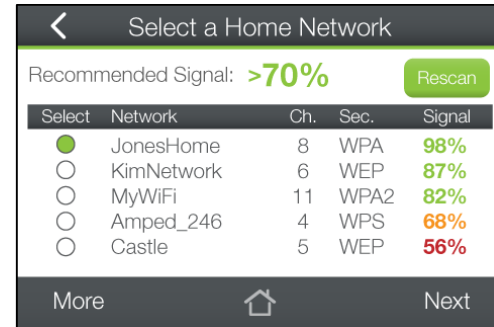
The *Extended Network* is the network that is rebroadcasted and extended by the Range Extender.



### Select a Home Network to Extend

Select the Wi-Fi network that you wish to extend and tap **Next** to continue. Check that your Wi-Fi Network has a signal strength of 70% or greater.

If you fail to find any Wi-Fi networks, or your signal strength is below 70%, the Range Extender may be placed too far from the Wi-Fi network that you are trying to extend. Move your Range Extender closer to the Wi-Fi network that you are trying to extend and tap **Rescan** to scan again.



The Scan results page will display information regarding the name of the network (SSID), the channel which the Wi-Fi network is operating on and the security type of the network. The results page will also display what the signal strength is of every network detected.

### Connecting to a Secure Network

If the Wi-Fi network you are trying to extend has Wi-Fi security enabled, you will be prompted to enter a Security Key. If you did not select a secure network, you will not see this page.

Enter the security key in the space provided. You do not need to select what type of security it is, just simply type in the key and tap **Next**.

The Wizard will automatically detect your home network's security settings. If you do not know the key to the network you are trying to extend, then tap the Back arrow to select another network.



## Extended Network Settings

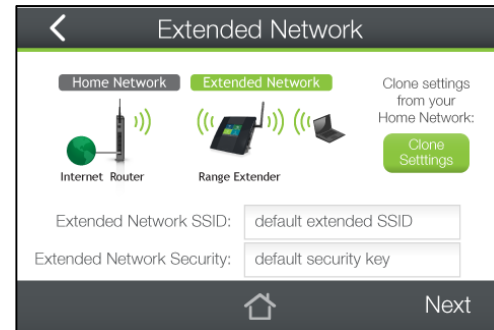
The default SSID of the Range Extender's Extended Network is "Amped TAP-EX".

If you choose to **Clone** the settings from your Home Network, the wizard will copy the SSID and Security Key of your Home Network.

The SSID of the Extended Network will have a "\_RE" at the end of its name. For example: Home\_Network\_RE.

You can also manually enter a new network ID and security key. The new security key must be at least 8 characters long.

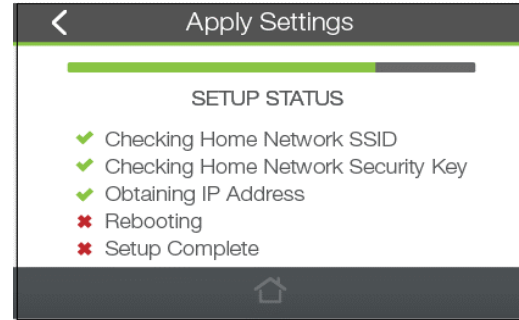
Tap **Next** to apply the settings.



### Applying Settings

DO NOT LEAVE THIS SCREEN.

Allow the progress bar to complete and the Wizard will automatically redirect you to the next step.



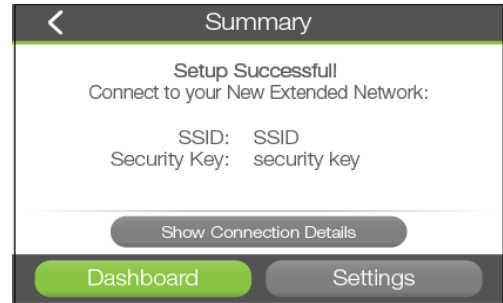
## Setup Summary

Congratulations, the Range Extender is now successfully configured! Your settings are now saved.

If you haven't already positioned your Range Extender in an optimal location, you may do so now. All Range Extender settings are saved and the unit can be safely powered off for relocation.

You may also attach any wired network devices to the wired ports on the side of the Range Extender at this time.

If you experience any problems during this process please contact our Amped Wireless Elite Support at 888-573-8820 or 909-217-3168.



**If the Extended Network connection fails try the following...**

- a. Check to see that your Home Network security settings are correct.
- b. Check on the SCAN screen that your Home Network is showing a signal of 70% or greater. If not, move the Range Extender closer to your Home Network router and try again.
- c. Check that your Home Network router's DHCP server is enabled.
- d. Try changing the channel of the Home Network router to a higher channel number (5-11) and run the Wizard again.
- e. If possible, check the Internet connection for your Home Network Wi-Fi router. Connect directly to your Home Network Wi-Fi router. If you are unable to access the internet through the Home Network Wi-Fi router, you must first fix this problem. The Range Extender will not be able to obtain internet access through a router that does not have internet access. Once Internet access is restored on your Home Network Wi-Fi router, connect to the Range Extender again and retry the Wizard.
- f. Return to the Wizard and attempt to connect to another Home Network known to have Internet access.
- g. Reboot (unplug the power adapter of the Range Extender from the power outlet and plug it back in) the Range Extender and check to see if the connection is established (some networks may be very slow and take longer than the allotted time for the Range Extender to successfully connect).



### MORE SETTINGS (TOUCH SCREEN)

The Range Extender's Touch Screen Menu provides a host of features that you can easily configure with the touch of your finger. To access the main Settings Menu tap **Settings** from the Dashboard. From there you can access additional Wi-Fi Settings or Management Settings.



**Note: For more advanced features and detailed options please access the web menu through your web browser, [setup.ampedwireless.com](http://setup.ampedwireless.com).**

## WI-FI SETTINGS (TOUCH SCREEN)

### Wi-Fi Settings (Touch): Home Network Settings

Home Network Settings allow you to adjust settings for your Range Extender's connection with your Home Network router. Should you choose to skip the Setup Wizard and manually configure your Range Extender, this is the menu you use to do so.

Home Network SSID: Manually enter the Identification name of the Home Network you wish to connect to.

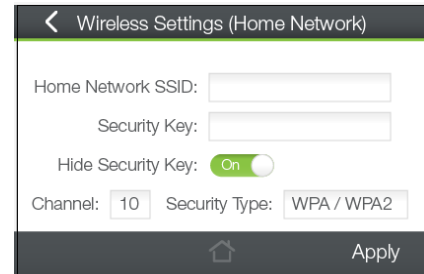
Security Key: Enter the Security Key of the Home Network. This is the password that you normally use when connecting directly to your home Wi-Fi connection.

Security Type: Select the encryption method used by your Home Network.

Channel Number: Enter the Channel number of the Home Network.

If the Settings entered here do not match the Settings of your home router, a connection between the router and the Range Extender will not be established.

More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).



Wireless Settings (Home Network)

Home Network SSID:

Security Key:

Hide Security Key:

Channel:  Security Type:

Apply

### Wi-Fi Settings (Touch): Extended Network Settings

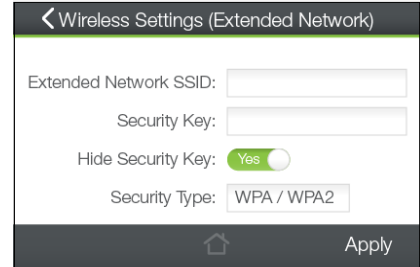
The Extended Network Settings page allows you to adjust settings for your Extended Network.

Extended Network SSID: This is the Identification name of the repeated/extended network.

Security Key: Enter the security key of the Extended Network. This is the password that your network devices will use to connect to the Extended Network.

Security Type: Select the encryption method used by the Home Network. This setting must match the Security Type setting of your Home Network router.

More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).



Wireless Settings (Extended Network)

Extended Network SSID:

Security Key:

Hide Security Key:  Yes

Security Type:

### Wi-Fi Settings (Touch): Guest Network

Toggle Guest Networks to **On** to create a Guest Network. Guest Networks provide a separate Wi-Fi network, with unique settings for users to connect to.

Guest Network SSID: This is the Identification name of your new Guest Network.

Security Key: Enter the security key of the Guest Network. This is the password that your network devices will use to connect your new Guest Network.

Security Type: Select the encryption method used by the Home Network. This setting must match the Security Type setting of your Home Network router.

More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).



Wireless Settings (Guest Network)

Enable Guest Network:  On

Guest Network SSID:

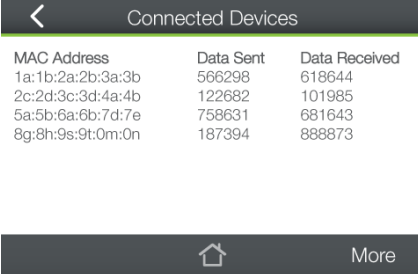
Security Key:

Security Type:

Apply

### Wi-Fi Settings (Touch): Connected Devices

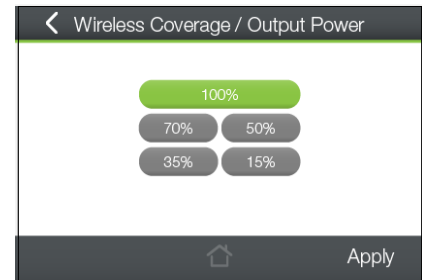
Connected Devices displays all users currently connected to the Range Extender's Extended Network. It provides a list of MAC Addresses for each connected device and the sent and received data for each.



MAC Address	Data Sent	Data Received
1a:1b:2a:2b:3a:3b	566298	618644
2c:2d:3c:3d:4a:4b	122682	101985
5a:5b:6a:6b:7d:7e	758631	681643
8g:8h:9s:9t:0m:0n	187394	888873

### Wi-Fi Settings (Touch): Wi-Fi Coverage Controls

Adjust the output power of the Range Extender to control the coverage distance of your Extended Wi-Fi Network. For a smaller coverage area you can select a lower output power. For the maximum Wi-Fi coverage select the **100%** selection. Note that if you select a lower output power, your connection to your Home Network will also decrease in range. So be careful and test your signal strength after each adjustment.



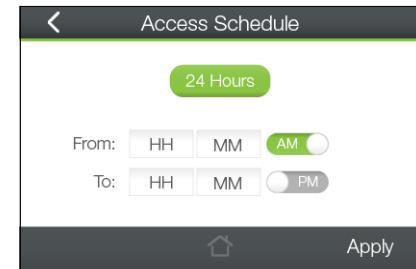
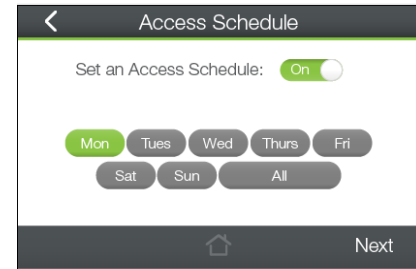
### Wi-Fi Settings (Touch): Access Schedule

You can set a schedule for when your Wi-Fi is enabled or disabled (both Home Network and the Extended Network) through the Access Schedule menu. To do so:

- Toggle the Access Schedule to **On**.
- Select which days you wish for your Wi-Fi to be available, one day at a time. Select the first day and tap **Next**.
- Then select the time frame during that day that you wish for Wi-Fi to be available. Tap **Apply** to save your settings.
- Tap the next day that you wish to schedule and then repeat steps a-c.

Your Access Schedule will also control the Internet access for wired connections. For more detailed settings, access [setup.ampedwireless.com](http://setup.ampedwireless.com).

**Note:** Make sure you have already configured your System Clock in order for your schedule to work correctly. Time Zone Settings can be adjusted from the Settings menu under Management > Clock / Date



**Wi-Fi Settings (Touch): Wi-Fi Protected Setup (WPS)**

WPS is a Wi-Fi feature created to make Wi-Fi setup simple and easy. Some Wi-Fi routers and adapters support this feature with varying names (i.e. One Touch Setup or WPS).

You may enable WPS setup here by tapping **Start WPS PBC**.

Follow the steps on the Range Extender to complete WPS setup.

More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).



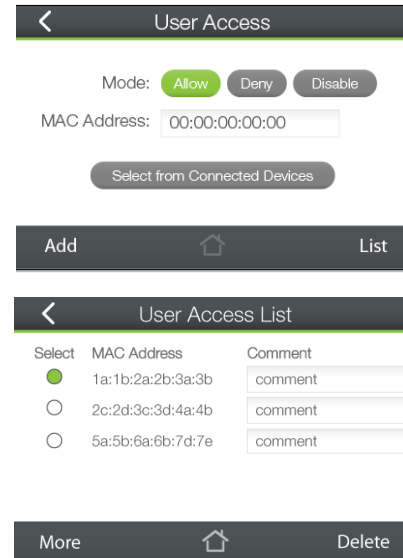


### Wi-Fi Settings (Touch): User Access

User Access allows you to deny access or allow access to specific users that are connecting wirelessly to the Extended Network. Each Wi-Fi device has a unique address called a MAC address (a 12 digit hex number).

By inputting the MAC address into the field, you can define whether that device is allowed to connect to your network or not allowed.

Tap **Select from Connected Devices** to conveniently alter the access of devices that are already connected to the Extended Network.




The image shows two screenshots of the User Access interface. The top screenshot is the 'User Access' settings page, which includes a back arrow, a title 'User Access', and three mode buttons: 'Allow' (highlighted in green), 'Deny', and 'Disable'. Below the mode buttons is a 'MAC Address' field containing '00:00:00:00:00' and a 'Select from Connected Devices' button. The bottom screenshot is the 'User Access List' page, which includes a back arrow, a title 'User Access List', and a table with three rows. The first row has a selected radio button, the second has an unselected one, and the third has an unselected one. Each row contains a MAC address and a 'comment' field. At the bottom of the list is a 'More' button, a home icon, and a 'Delete' button.

**User Access**

Mode: **Allow** Deny Disable


MAC Address: 00:00:00:00:00

Select from Connected Devices

Add  List

**User Access List**

Select	MAC Address	Comment
<input checked="" type="radio"/>	1a:1b:2a:2b:3a:3b	comment
<input type="radio"/>	2c:2d:3c:3d:4a:4b	comment
<input type="radio"/>	5a:5b:6a:6b:7d:7e	comment

More  Delete

## MANAGEMENT SETTINGS (TOUCH)

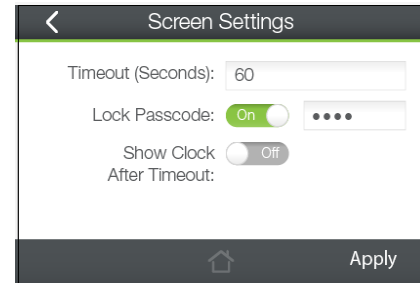
### Management (Touch): Screen Settings

Manage the behavior and security of the LCD screen:

**Timeout:** When the touch screen is inactive past the duration of the Timeout time (in seconds), it will turn off to conserve power.

**Lock Passcode:** You can turn on a screen that has turned off simply by touching the screen. The Lock Passcode is a 4 digit security code used to secure access to the screen. If the Passcode is incorrect, the Touch Screen Menu will not appear. (Note: If you forget your passcode, simply reset the Range Extender back to default settings by holding down the reset button on the right panel of the Range Extender for 5-10 seconds)

**Show Clock After Timeout:** The Range Extender can automatically display the time and date after the timeout time has elapsed instead of turning the screen off.



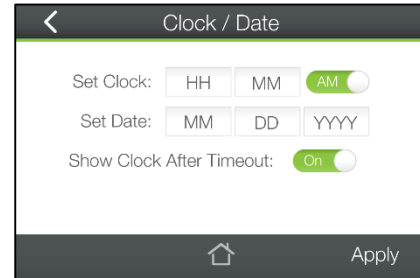
### Management (Touch): Clock / Date

Maintain the internal clock for the Range Extender by syncing with the

Your clock and date settings need to be accurate in order for Logs and Wi-Fi Access Schedules to work correctly.

If you wish for the Clock to show on your screen when the Range Extender is timed-out, toggle this to **On**.

Be sure to **Apply** settings to save them.



## Management (Touch): System Details

The Device Status provides you with a snapshot of your Range Extender's current connections and settings.

Home Wi-Fi Network Settings: This section displays the current status of the connection between the Range Extender and your Home Network. When viewing this section, it is important to check that your Home Network SSID is correct and the channel number matches your Home Network's channel number settings.

Connection Status: The Connection State will say "Connected" when there are no problems with the connection to your Home Network.

Extended Wi-Fi Network Settings: This shows the current settings for your Extended Wi-Fi Network. The IP settings for your Range Extender will change as you connect and disconnect from your Home Network. When connected to your Home Network, the network IP settings will be assigned by your Home Network. When not connected, the Range Extender will use its own default network IP settings.



Device Details: This section provides you with information on the version and build time of your firmware. This is used to help our support department determine what firmware version your device is running.

The **Current Date / Time** is the setting for the System Clock. If this time is off, go to the System Clock section and configure your system time.



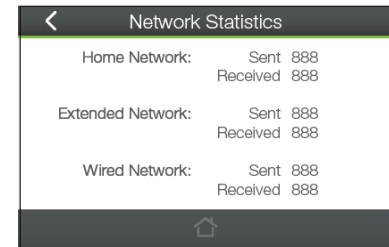
## Management (Touch): Statistics

These statistics show the data activity for each network connection.

Home Network: These statistics show the data activity for all upload and download data between the Home Network and the Range Extender.

Extended Wi-Fi Network: These statistics show all data activity for all users connected wirelessly to the Range Extender.

Wired Network: The Wired Connection statistics show all data activity for all users physically connected to the wired ports on the Range Extender.



Network Statistics		
Home Network:	Sent	888
	Received	888
Extended Network:	Sent	888
	Received	888
Wired Network:	Sent	888
	Received	888

### Management (Touch): USB Storage

Share a USB storage device with computers on both the Home Network and the Extended Network of the Range Extender.

Insert a USB storage device, such as a flash drive or external hard drive, to the USB port on the side of the Range Extender and follow the directions below for your operating system. The computer must be connected to your Home Network or Extended Network in order to access the storage device. You may also want to Map the Network Drive so it shows up as a standard drive on your computer for easier access.



More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).

## Windows 7 & Vista

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button
- b. Click **Computer**
- c. On the Computer page, the drive should appear on the left hand column under Network as **AMPED\_RE\_USB**

To Map the Network Drive:

- a. Click the **Start** button
- b. Click **Computer**
- c. Click **Map Network Drive** from the top bar
- d. Select a drive letter (any), then enter in the folder field:  
**\\AMPED\_RE\_USB\public** or **\\Range Extender's LAN IP address\public**
- e. If the drive fails to open, click **browse** and locate **AMPED\_RE\_USB** under Network



## Windows XP

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button
- b. Click **My Computer**
- c. Click on **My Network Places** and locate the drive named **AMPED\_RE\_USB**

To Map the network drive:

- a. Click the **Start** button
- b. Right Click **My Computer** and select **Map Network Drive**
- c. Select a drive letter (any), then enter in the folder field:  
**\\AMPED\_RE\_USB\public\** or **\\Range Extender's LAN IP address\public\**
- d. If the drive fails to open, click **browse** and locate **AMPED\_RE\_USB** under Network

## Mac OS X

To access the drive from your Mac desktop:

Note: If the USB drive does not appear automatically under your Networked devices, you will need to Map your Network Drive (Instructions below).

- a. Open **Finder**
- b. On the left hand menu, under Shared, click **AMPED\_RE\_USB**

To Map the network drive:

- a. Open **Finder**
- b. From the menu on the top of the desktop, select **Go**
- c. Select **Connect To Server** from the drop down menu
- d. Enter the address of the network drive:  
**smb://AMPED\_RE\_USB/public** or **smb://Range Extender's LAN ip address/public**
- e. Then click **Connect**

If the network drive does not appear on your Mac desktop, follow these steps:

- a. Open **Finder**
- b. Select **Preferences** from the drop down menu
- c. Check show **Connected Servers**
- d. The drive should now appear on your desktop

### **Management (Touch): System Logs**

System Logs are useful for viewing the activity and history of the Range Extender. The System Logs are also used by Amped Wireless techs to help troubleshoot your Range Extender when needed.

It is recommended that you enable all logs in the event that troubleshooting is required. All log entries are deleted each time the Range Extender reboots or is powered off.

More detailed log information can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).

### Management (Touch): Upgrade Firmware

Amped Wireless continuously updates the firmware for all products in an effort to constantly improve our products and their user experiences. When connected to an active connection with Internet access, the Range Extender can automatically check for new firmware updates that are available by tapping **Check for Updates**. Follow the prompts to complete the upgrade process.

Before upgrading the firmware, remember to always save your current settings first by going to Save/Reload Settings via the web menu. The firmware upgrade process will reset the settings of the Range Extender to default settings.

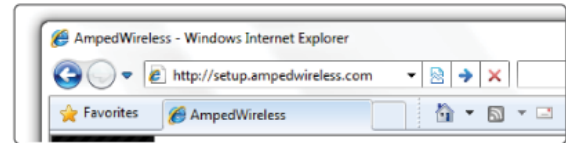
More detailed settings can be found by accessing the web menu, [setup.ampedwireless.com](http://setup.ampedwireless.com).



## ACCESSING THE WEB MENU

The Range Extender can be configured via the simple to use Touch Screen Menu or via a web browser with the Web Menu. The Web Menu features a more advanced, more detailed interface with additional configuration options that may not be found on the Touch Screen Menu. To access the Web Menu, simply connect your computer, tablet, or smartphone to the Wi-Fi network or the wired network port of the Range Extender.

- a. Open your web browser
- b. Type <http://setup.ampedwireless.com> into the web address bar
- c. If the web menu fails to open, type in the following IP address into your web address bar:  
<http://192.168.1.240>



<http://setup.ampedwireless.com>

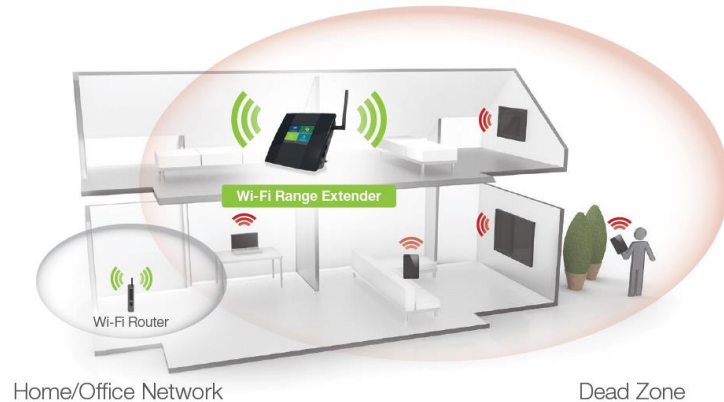
### NOTE: IF YOU HAVE PROBLEMS ACCESSING THE WEB MENU

- a. Disconnect your PC from all Wi-Fi networks
- b. Attach an Ethernet cable between the PC and the Range Extender
- c. Open your web browser and go to <http://setup.ampedwireless.com> again

## SETUP GUIDE (WEB MENU)

### Find a Setup Location

The location of where you install the Range Extender is very important to how it will function. The optimal setup location should be somewhere no more than halfway between your Wi-Fi router and your Wi-Fi dead zone.



IMPORTANT:



PLACE THE **RANGE EXTENDER** IN A LOCATION WHERE IT CAN RECEIVE A STRONG SIGNAL FROM YOUR WIRELESS ROUTER.

This can be done before or after setup is complete. The Range Extender will save your settings.

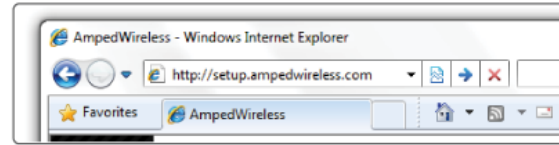
### Connect your PC, Tablet, or Smartphone to the Range Extender

- Attach the included antenna.
- Attach the Power Adapter to the Range Extender's PWR Port and an available power outlet.
- The Range Extender should boot up with the Amped Wireless logo and then the Dashboard screen should appear.
- Connect your PC, Tablet, or Smartphone to the Range Extender's Wi-Fi network: **Amped TAP-EX**.



**Open your Web Browser to Access the Setup Wizard**

- a. Open your web browser
- b. Type <http://setup.ampedwireless.com> into the web address bar
- c. If the web menu fails to open, type in the following IP address into your web address bar: <http://192.168.1.240>



<http://setup.ampedwireless.com>

**NOTE: IF YOU HAVE PROBLEMS ACCESSING THE WEB MENU**

- a. Disconnect your PC from all Wi-Fi networks
- b. Attach an Ethernet cable between the PC and the Range Extender
- c. Open your web browser and go to <http://setup.ampedwireless.com> again



## Welcome to the Dashboard

The Dashboard will provide you with the current status of the Range Extender.

Click **SCAN** to find an available network to extend.

The diagram on this page displays the terms used to describe:

- 1) The network you are trying to extend (Home Network).
- 2) The network that is rebroadcasted and extended (Extended Network).

Study this diagram carefully as the terms used in the following instructions will refer to these names.

The screenshot displays the 'Welcome to the Dashboard' interface. At the top, a diagram illustrates the network setup: an 'Internet' connection leads to a 'Router' (part of the 'Home Network'), which is connected to a 'Range Extender' (part of the 'Extended Network'). A green checkmark and the word 'CONNECTED' are shown between the router and the range extender. Below the diagram, a green button with a play icon and the text 'SCAN' is visible, with the instruction 'To connect to a new network, click Scan:'. The 'System Status' section is divided into two columns: 'Connection to Home Network' and 'Extended Network Details'. The 'Connection to Home Network' section shows 'Status: Connected', 'Wireless SSID: Amped\_office\_2.4Ghz', 'Security Key: [redacted]', 'Signal Strength: 100', and 'Gateway IP: 192.168.10.1'. The 'Extended Network Details' section shows 'Wireless SSID: Amped\_office\_2.4Ghz\_RE', 'Security Key: [redacted]', 'Channel: 1', 'IP Address: 192.168.10.49', and 'DHCP Mode: Client'.

### Scan for a Home Network to Extend

Highlight and select the Wi-Fi network that you wish to extend and click **Next** to continue. Check that your Wi-Fi Network has a signal strength of 70% or greater.

If you fail to find any Wi-Fi networks, or your signal strength is below 70%, the Range Extender may be placed too far from the Wi-Fi network that you are trying to extend. Move your Range Extender closer to the Wi-Fi router of the network that you are trying to extend and click **Rescan**.

The Scan results page will display information regarding the name of the network (SSID), the channel which the Wi-Fi network is operating on and the security type of the network. The results page will also display what the signal strength is coming from each specific network detected.

**Select a Network to Extend**

Select your network and click **Next** below.  
 If you do not see your network... **RESCAN**

RECOMMENDED SIGNAL STRENGTH  
 >70%

Router Range Extender

Connect to Wi-Fi networks with greater than 70% signal strength.  
 Connecting to networks with poor signal strength may cause the connection to be slow or unstable.

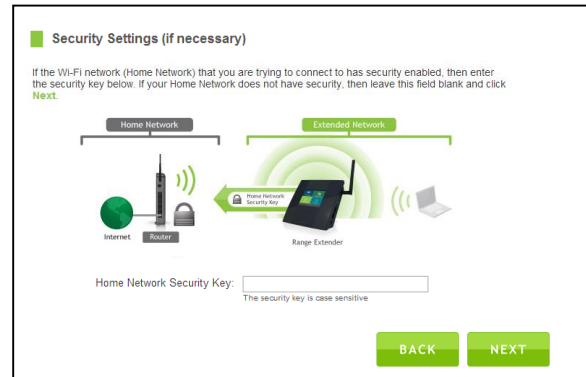
Home Network (SSID)	Channel	Security	Signal	Select
Network 1	1 (B+G+N)	WPA2-PSK	97%	<input type="radio"/>
Network 2	3 (B+G+N)	WPA-PSK/WPA2-PSK	93%	<input type="radio"/>
Network 3	1 (B+G+N)	WPA-PSK/WPA2-PSK	91%	<input type="radio"/>
Network 4	1 (B+G+N)	WPA-PSK/WPA2-PSK	91%	<input type="radio"/>
Network 5	11 (B+G+N)	WPA-PSK/WPA2-PSK	87%	<input type="radio"/>
Network 6	11 (B+G)	WPA2-PSK	81%	<input type="radio"/>
Network 7	2 (B+G+N)	WPA2-PSK	51%	<input type="radio"/>
Network 8	6 (B+G)	WEP	45%	<input type="radio"/>

## Connecting to a Secure Network

If the Wi-Fi network you are trying to extend has Wi-Fi security enabled, you will be prompted to enter a Security Key. If you did not select a secure network, you will not see this page.

Enter the Security Key in the space provided. You do not need to select what type of security it is, just simply type in the Key and click **Next**.

The Wizard will automatically detect your home network's security settings. If you do not know the Key to the network you are trying to extend, then click **Back** and select another network.



## Extended Network Settings

The default SSID of the Range Extender is **Amped TAP-EX**.

If you choose to **Clone Settings** from your Home Network, the wizard will copy the SSID and Security Key of your Home Network.

The SSID of the Extended Network will have a "\_RE" at the end of its name. For example: Home\_Network\_RE

You can also manually enter a new SSID and Security Key. The new security key must be at least 8 characters long.

Click Next to apply the settings.

**Extended Network Settings**

Home Network      Extended Network

Internet Router      Range Extender      Extended Network SSID and Security Key      Laptop

Copy settings from your Home Network or manually configure them below:

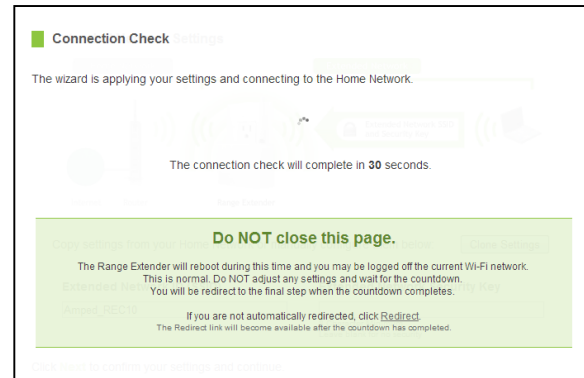
**Extended Network ID (SSID)**

**Extended Network Security Key**  
  
8 Character Minimum  
 Leave blank for no security

### Connection Check

DO NOT LEAVE OR REFRESH THIS PAGE.

Allow the countdown to complete and the Wizard will automatically redirect you to the next step.



### Connect to the new Extended Network

During the countdown process, the Range Extender will reboot and disconnect the Wi-Fi connection. At this point, you will need to reconnect your PC, Tablet, or Smartphone to the new Extended Network. Follow the instructions on the screen to connect to the Extended Network.

Once you have connected, click the check box to confirm. The **Next** button will appear allowing you to complete the setup process.


If there are problems with your configuration, the Wizard will inform you to rescan for a network to extend.

If there are no problems, you will see the Setup Summary on the following page.


**Connect to your Extended Network**

Go to your Wi-Fi connection manager and connect to one of your Extended Networks using the settings below.


Extended Wi-Fi Network SSID: Extended Network ID

Security Key: [\*\*\*\*\*] 


---

Select your operating system for instructions: Windows 8 


**1** Access Settings by swiping the right edge of your screen or putting your mouse cursor in the upper right corner. Click/tap on Settings.




**2** Click or tap the Wireless icon and select the Extended Network SSID (shown Above). Click Connect.



**3** When prompted enter the Wi-Fi security key (shown above) and click Next.



**4** Switch back to this web browser window (back to this page).



---

**Confirm that you are now connected to your Extended Network:**  
Once you have confirmed, the **Next** button will appear below for you to complete the setup process.

## Setup Summary

Congratulations, the Range Extender is now successfully configured! Your settings are now saved.

If you haven't already positioned your Range Extender in an optimal location, you may do so now. All Range Extender settings are saved and it can be safely powered off for relocation.

You may also attach any wired network devices to the wired ports on the side of the Range Extender.

If you experience any problems during this process please contact Amped Wireless Elite Support at 888-573-8820.

The screenshot displays the 'Setup Summary' page. At the top, a green header contains the text 'Setup Summary'. Below this, a message reads: 'Congratulations, the Range Extender is now successfully connected to your Home Network.' Underneath the message is a 'Print' button and the text 'PRINT THIS PAGE FOR YOUR RECORDS:'. The page is divided into two sections: 'Home Network Settings:' and 'Extended Network Settings:'. The 'Home Network Settings' section lists: SSID: Network\_1, Channel Number: 1, Encryption: WPA2, Security Key: [redacted], BSSID: 00:00:00:00:00:00, and Connection State: Connected. The 'Extended Network Settings' section lists: SSID: Amped\_SR, Encryption: WPA2 Mixed, Security Key: [redacted], IP Address of the Range Extender: 192.168.10.163, Subnet Mask: 255.255.255.0, Default Gateway: 192.168.10.1, DHCP Server: Auto, and MAC Address: 00:00:00:00:00:00.

**If the Home/Office Network connection fails try the following...**

- a. Check to see that your Home Network security settings are correct.
- b. Check on the SCAN page that your Home Network is showing a signal of 70% or greater. If not, move the Range Extender closer to your Home Network router and try again.
- c. Check that your Home Network router's DHCP server is enabled.
- d. Try changing the channel of the Home Network router to a higher channel number (5-11) and run the Wizard again.
- e. If possible, check the Internet connection for your Home Network Wi-Fi router. Connect directly to your Home Network Wi-Fi router. If you are unable to access the internet through the Home Network Wi-Fi router, you must first fix this problem. The Range Extender will not be able to obtain internet access through a router that does not have internet access. Once Internet access is restored, connect to the Range Extender again and retry the Wizard.
- f. Return to the Wizard and attempt to connect to another Home Network known to have Internet access.
- g. Reboot (unplug the power adapter of the Range Extender from the power outlet and plug it back in) the Range Extender and check to see if the connection is established (some networks may be very slow and take longer than the allotted time for the Range Extender to successfully connect).



## WI-FI SETTINGS (WEB BROWSER)

### Home Network Settings

Home Network Settings allow you to adjust settings for your Range Extender's connection with your Home Network router. Should you choose to skip the Setup Wizard and manually configure your Range Extender, this is the menu you use to do so.


**Home Network SSID:** Manually enter the Identification name of the Home Network you wish to connect to.

**Channel Number:** Enter the channel number of the Home Network. If the channel number does not match, a connection will not be established.

**Channel Width:** Wi-Fi operates in two separate channel widths, 20Hz and 40Hz. 20Hz allows operation on channels 1-11, while 40Hz is 5-11. 40Hz allows for faster speeds. Select the channel width you wish to use for your network. This setting must match that of your Home Network for a successful connection.

**Home Network Settings**

Manually configure the settings for your Home Network connection.



Must be same as your Home Network router

**Home Wireless Connection**

Home Network SSID:

Channel Width:

Control Sideband:

Channel Number:

If you are manually setting your Home Network connection, you will need to enter the security setting in the Security page for your Home Network. After clicking Apply on this page, click Reboot Later and go to the Security page to set your security settings. Click Reboot Now after all settings are applied. The Range Extender cannot connect to your Home Network until all settings have been set and applied.

## Wi-Fi Settings (Web): Extended Network Settings

The Extended Network Settings page allows you to adjust settings for your Extended Network.

**Band:** Allows you to setup access under a specific combination of Wi-Fi speed standards.

**Broadcast SSID:** Selecting Disable Broadcast SSID will hide the visibility of the Range Extender's SSID. Users must manually enter the SSID to connect.

**Extended Network Settings**

These settings apply to your Extended wireless network.

Home Network | Extended Network

Internet Router | Range Extender

**Extended Wireless Network Settings**

Disable Wireless Connections:

Band: 2.4 GHz (B+G+N) ▼

Broadcast SSID: Enabled ▼

SSID of Extended Network: Amped\_office\_2.4Ghz\_RE  
Guest Networks

Channel Number: 1 (same as Home Network)

WMM: Enabled ▼

Associated Clients: Show Active Clients

APPLY RESET

## Wi-Fi Settings (Web): Guest Network

Click **Enable** to create a Guest Network. Guest Networks provide a separate Wi-Fi network, with unique settings for users to connect to.

SSID: This is the name of your Guest Network.

Data Rate: You can restrict access to the Guest Network by setting a lower bandwidth by changing the band (i.e. only allow 802.11b access to specific users).

Associated Clients: View all computers and network devices that are wirelessly connected to your Guest Network.

To set security settings for the Guest Network go to: Wi-Fi Settings > Security.

No.	Enable	Band	SSID	Data Rate	Broadcast SSID	Active Client List
Guest Network 1	<input type="checkbox"/>	2.4 GHz (B+G+N)		Auto	Enabled	Show

APPLY BACK RESET

## Wi-Fi Settings (Web): Security

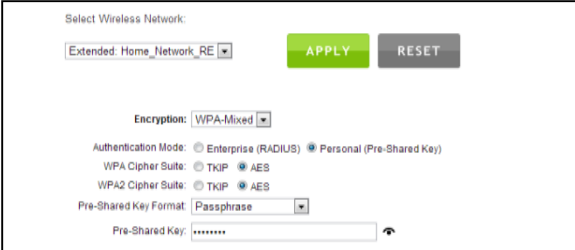
Wi-Fi security allows you to change the type of Wi-Fi security settings for your Extended Network or your Home Network.

**Note:** If you adjust the security in your Home Network and it is incorrect, you will no longer have a successful connection to your Home Network. You must first adjust the security of your Home Network on your Home Network router.

Using the drop down menu, you can select which network you wish to configure and you may adjust the security settings below.

If you are using the Multiple AP/SSID feature, you will be able to adjust the security settings for your additional SSIDs here as well.

For more information on the differences between the types of Wi-Fi security available, please visit the Learning Center of the Amped Wireless website: [www.ampedwireless.com](http://www.ampedwireless.com)



The screenshot shows a web interface for configuring Wi-Fi security. At the top, there is a section titled "Select Wireless Network:" with a dropdown menu currently set to "Extended: Home\_Network\_RE". To the right of the dropdown are two buttons: a green "APPLY" button and a grey "RESET" button. Below this, the "Encryption:" dropdown is set to "WPA-Mixed". Underneath, there are two rows of radio button options: "Authentication Mode" with "Enterprise (RADIUS)" and "Personal (Pre-Shared Key)" (which is selected), and "WPA Cipher Suite" with "TKIP" and "AES" (which is selected). Below these are two more rows: "WPA2 Cipher Suite" with "TKIP" and "AES" (which is selected), and "Pre-Shared Key Format" with a dropdown menu set to "Passphrase". At the bottom, there is a "Pre-Shared Key:" field with a masked password "\*\*\*\*\*" and a small eye icon to toggle visibility.

## Wi-Fi Settings (Web): Wi-Fi Protected Setup (WPS)


WPS is a Wi-Fi feature created to make Wi-Fi setup simple and easy. Some Wi-Fi routers and adapters support this feature with varying names (i.e. One Touch Setup or WPS).

You may enable WPS setup here by selecting the type of WPS setup you wish to use. The Range Extender supports all types of WPS setup.

Push Button: You may push the WPS button on the web menu or use the physical button on the back of the Range Extender.

### Wi-Fi Protected Setup

WPS provides hassle free setup for wireless users connecting to the Range Extender. Use one of the following WPS processes to configure WPS.



Disable Wi-Fi Protected Setup (WPS)

**Enable Wi-Fi Protected Setup**

Option A: If your wireless user has a Wi-Fi Protected Setup button, click or press the WPS PBC (Push Button Configuration) button here:

Option B: If your wireless user asks for the Range Extender's PIN number, use this number on the user's device: 57397566

Option C: If your wireless user has a Wi-Fi Protected Setup PIN number, enter that number here:

and then click

## Wi-Fi Settings (Web): User Access

User Access allows you to deny access or allow access to specific users connecting wirelessly to the Extended Network. Each Wi-Fi device has a unique address called a MAC address (a 12 digit hex number).

By inputting the MAC address into the field, you can define whether that device is allowed into your network or not allowed.

### User Access Control

Allow or deny wireless access to specific users by entering the MAC address of the device below. The MAC address of a networking device is a 12 digit hex number normally found on a label on the bottom of the device (e.g. 1A2B3C4F5A6D).

Wireless Access Control Mode:

MAC Address:

Comment:

### Wi-Fi Settings (Web): Wi-Fi Coverage Controls

Adjust the output power of the Range Extender to control the coverage distance of your Extended Wi-Fi Network. For a smaller coverage area you can select a lower output power. For larger areas and the maximum Wi-Fi coverage select the 100% selection. Note that if you select a lower output power, your connection to your Home Network will also decrease in range. So be careful and test your signal strength after each adjustment.



## Wi-Fi Settings (Web): Access Schedule

You can set a schedule for when your Wi-Fi is enabled or disabled (both Home Network and the Extended Network) through the Access Schedule feature. To do so:

- Enable Access Schedule.
- Select which days you wish for your Wi-Fi to be available.
- Select the time frame during that day that you wish for Wi-Fi to be available.
- Apply Changes.

The Access Schedule will also adjust the internet access for wired connections on specified days.

**Note:** Make sure you have already configured your System Clock in order for your schedule to work correctly. Time Zone Settings can be adjusted from the web menu under Management > Time Zone Settings.

**Access Schedule**

Define a schedule for when Wi-Fi is enabled or disabled on the High Power Range Extender. Please be sure that your time zone settings have been configured before using this feature.

Note: When Wi-Fi is disabled, wired users will no longer have access to the Internet.

Enable Access Schedule

Enable	Day	From	To
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)
<input type="checkbox"/>	Sunday	00 (hour) 00 (min)	00 (hour) 00 (min)



## Wi-Fi Settings (Web): Advanced Settings

It is recommended that only experts in Wi-Fi configuration adjust the advanced Wi-Fi settings for the Range Extender.

These settings allow you to control the details of your Wi-Fi network configuration.

Here are a few definitions on some settings:

**Fragment Threshold:** The Default and Recommended setting is at 2346, meaning the Range Extender will never fragment any frames that it sends to Wi-Fi users.

**RTS Threshold:** Adjusts the size of RTS data packets.

Lower values reduce throughput, but allow the system to recover quicker from interference/collisions. Higher values provide the fastest throughput.

**Beacon Interval:** Indicates the frequency interval of the beacon. A beacon is a packet broadcast by the Range Extender to sync the Wi-Fi network.

**Advanced Settings**

Advanced wireless settings are for technically advanced users. It is recommended that these settings not be changed unless it is understood what the effects will be on your local wireless network.

Fragment Threshold:  (256-2346)

RTS Thresold:  (0-2347)

Beacon Interval:  (20-1024 ms)

Preamble Type:  Long Preamble  Short Preamble

IAPP:  Enabled  Disabled

Protection:  Enabled  Disabled

Aggregation:  Enabled  Disabled

Short GI:  Enabled  Disabled

WLAN Partition:  Enabled  Disabled

STBC:  Enabled  Disabled

20/40MHz Coexist:  Enabled  Disabled

Preamble Type: Defines the length of the Cyclic Redundancy Check for communication between the Range Extender and roaming Wi-Fi users.

IAPP: Inter-Access Point Protocol

STBC: Space Time Block Coding improves reception by coding the data stream in blocks.

## NETWORK SETTINGS (WEB MENU)

**IP Address:** The IP address of the Range Extender.


**Subnet Mask:** The subnet of the Range Extender.

**Default Gateway:** The access point to another network, normally the Range Extender or your router.

**DHCP:** The Range Extender includes a complex AUTO DHCP feature to help manage the IP addresses within your Extended network and with your Home Network. When connected to a Home Network, the Range Extender will obtain an IP address from your Home Network's router and act as a DHCP Client. However, when there is no connection available, the Range Extender will act as a DHCP Server. You may also manually control the IP settings of the Range Extender by choosing Client, Server or Disabled from the DHCP drop down menu. This is only for advanced users.

### Extended Network IP Settings (LAN)

Adjust the IP Settings for the Range Extender as well as the DHCP server for the Extended Network.



IP Address:

Subnet Mask:

Default Gateway:

DHCP:

DHCP Client Range:  -

DHCP Lease Time:  (1 ~ 10080 minutes)

Domain Name:

Auto-Load Menu (Auto-DNS):  Enabled  Disabled

Note: Disabling Auto-DNS may require that you access the web menu using the IP address of this device. It is recommended that you note your IP address before changing this mode. If you are no longer able to access the web menu, you will need to perform a hardware reset.

802.1d Spanning Tree:

Clone MAC Address:

DHCP Client Range: The range of IP addresses the Range Extender's DHCP server will assign to users and devices connecting to the Range Extender.

Static DHCP: You may set a static IP address within your DHCP network. The Range Extender will track the device via its MAC address and assign it a pre-defined IP address each time the device logs into the network. Obtain IP settings from the Home router or manually enter your IP settings.

Auto-Load Menu (Auto-DNS): When the Range Extender loses connection to your Home Network it will automatically redirect your web browser to the web menu. To turn this feature off, you can disable Auto-DNS. Note: Disabling Auto-DNS will require that you access the web menu using the IP address of this device. It is recommended that you note your IP address before changing this mode. If you are no longer able to access the web menu, you will need to perform a hardware reset.

Domain Name: The Domain Name allows you to change the URL which is used to access the Setup Menu for the Range Extender. For example, entering <http://setup.ampedwireless.com> into your web browser while connected to the Range Extender, will guide you to the Web menu for the Range Extender. By changing the Domain Name, you will change the URL entered to access the Web menu. If you forget the Domain Name you entered and can no longer access the Web menu, then you will need to reset your Range Extender to default settings by holding down the reset button on the side panel for 5-10 seconds.

## USB STORAGE (WEB MENU)

### USB Storage (Web): Local Sharing

Share a USB storage device with computers on the local network of the High Power Range Extender.

Insert a USB storage device, such as a flash drive or external hard drive, to the USB port on the back of the Range Extender and follow the directions below for your operating system. The computer must be connected to your Home Network or Extended Network to access the storage device. You may also want to Map the Network Drive so it shows up as a standard drive on your computer for easier access.

**■ USB Storage Local Sharing**

Share a USB storage device, such as a USB flash drive or external hard drive, locally among networked computers. Insert your USB storage device into the USB port on the back panel of the High Power Router.

Check the [File Support Center](#) for new USB Storage features.

---

**Local Network Sharing**

---

USB Drive: ● Connected

Partition	File System	Capacity	Free Space
NTFS	NTFS	7.454 GB	2.833 GB
TOTAL	*	7.454 GB	2.833 GB

[How to Access or Map your Network Drive](#)  
Note: You may need to [Map your Network Drive](#) for it to appear in your computer's networked device list.

USB Device Name:

Work Group:

Shared Disk IP Address: 192.168.3.1  
(For Mapping the Network Drive)

### Windows 7 & Vista

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button
- b. Click **Computer**
- c. On the Computer page, the drive should appear on the left hand column under Network as:  
**AMPED\_RE\_USB**

To Map the network drive:

- a. Click the **Start** button
- b. Click **Computer**
- c. Click **Map Network Drive** from the top bar
- d. Select a drive letter (any), then enter in the folder field:  
**\\AMPED\_RE\_USB\public\ or \\Range Extender's LAN IP address\public\**
- e. If the drive fails to open, click **Browse** and locate **AMPED\_RE\_USB** under Network

## Windows XP

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button
- b. Click **My Computer**
- c. Click on **My Network Places** and locate the drive named **AMPED\_RE\_USB**

To Map the network drive:

- a. Click the **Start** button
- b. Right click **My Computer** and select **Map Network Drive**
- c. Select a drive letter (any), then enter in the folder field:  
**\\AMPED\_RE\_USB\public\** or **\\Range Extender's LAN IP address\public\**
- d. If the drive fails to open, click **Browse** and locate **AMPED\_RE\_USB** under Network

## Mac OS X

To access the drive from your Mac desktop:

Note: If the USB drive does not appear automatically under your Networked devices, you will need to Map your Network Drive (Instructions below).

- a. Open **Finder**
- b. On the left hand menu, under Shared, click **AMPED\_RE\_USB**

To Map the network drive:

- a. Open **Finder**
- b. From the menu on the top of the desktop, select **Go**
- c. Select **Connect To Server** from the drop down menu
- d. Enter the address of the network drive:  
*smb://AMPED\_RE\_USB/public* **or** *smb://Range Extender's LAN ip address/public*
- e. Then click **Connect**

If the network drive does not appear on your Mac desktop, follow these steps:

- a. Open **Finder**
- b. Select **Preferences** from the drop down menu
- c. Check **Show Connected Servers**
- d. The drive should now appear on your desktop



### ***MANAGEMENT FEATURES (WEB BROWSER)***

The Management features on the Range Extender allow you to view the status of your Range Extender and adjust other settings such as your System Clock, Passwords, and Firmware Upgrades among other administrative functions.

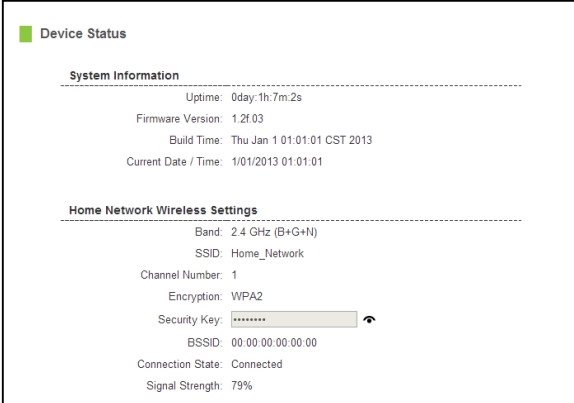
## Management (Web): Device Status

The Device Status provides you with a snapshot of your Range Extender's current connections and settings.

System Information: This section provides you with information on the version and build time of your firmware. This is used to help our support department determine what firmware version your device is running.

The Current Date / Time is the setting for the system clock. If this time is off, go to the [System Clock](#) section and configure your system time.

Home Wi-Fi Network Settings: This section displays the current status of the connection between the Range Extender and your Home Network. When viewing this section, it is important to check that your Home Network SSID is correct and the channel number matches your Home Network's channel number settings.



The screenshot displays the 'Device Status' page. It is divided into two main sections: 'System Information' and 'Home Network Wireless Settings'. The 'System Information' section shows the device's uptime as 0 days, 1 hour, and 7 minutes, 2 seconds. The firmware version is 1.2f.03, and the build time is Thursday, January 1, 2013, at 01:01:01 CST. The current date and time are 1/01/2013 01:01:01. The 'Home Network Wireless Settings' section shows the device is connected to a home network. The band is 2.4 GHz (B+G+H), the SSID is 'Home\_Network', and the channel number is 1. The encryption is WPA2, and the security key is masked with dots. The BSSID is 00:00:00:00:00:00, and the connection state is 'Connected'. The signal strength is 79%.

System Information	
Uptime:	0day:1h:7m:2s
Firmware Version:	1.2f.03
Build Time:	Thu Jan 1 01:01:01 CST 2013
Current Date / Time:	1/01/2013 01:01:01

Home Network Wireless Settings	
Band:	2.4 GHz (B+G+H)
SSID:	Home_Network
Channel Number:	1
Encryption:	WPA2
Security Key:	.....
BSSID:	00:00:00:00:00:00
Connection State:	Connected
Signal Strength:	79%

Connection State: The Connection State will say "Connected" when there are no problems with the connection to your Home Network.

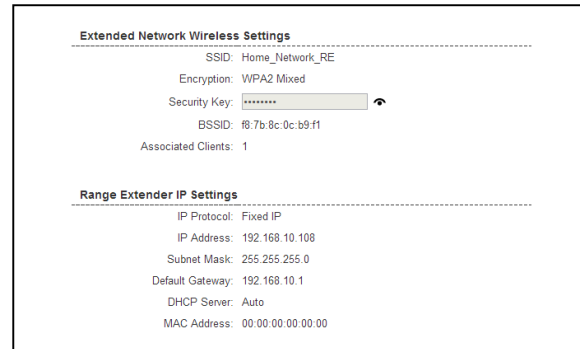
If the Connection State shows "Waiting for Keys" then the WPA/WPA2 security key you entered is incorrect.

If the Connection State shows "Scanning" the Range Extender may be too far away from your home/office router.

The Signal Strength display can be updated by refreshing the page and is a good tool to use for finding the optimal installation location. A signal strength of 70% or greater is recommended for stable operation of the Range Extender.

Extended Wi-Fi Network Settings: Shows the current settings for your Extended Wi-Fi Network.

Range Extender IP Settings: The network IP settings for your Range Extender will change as you connect and disconnect from your Home Network. When connected to your Home Network, the network IP settings will be assigned by your Home Network. When not connected, the Range Extender will use its own default network IP settings.



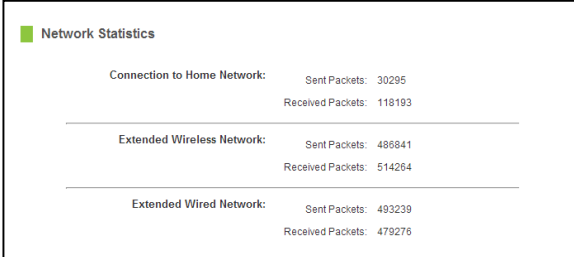
## Management (Web): Statistics

These statistics show the data activity for each network connection.

Connection to Home Network: These statistics show the data activity for all upload and download data between the Home Network and the Range Extender.

Extended Wi-Fi Network: These statistics show all data activity for all users wirelessly connected to the Range Extender.

Extended Wired Network: These statistics show all data activity for all users physically connected to the wired ports on the Range Extender.



Network Statistics	
Connection to Home Network:	Sent Packets: 30295 Received Packets: 118193
Extended Wireless Network:	Sent Packets: 486841 Received Packets: 514264
Extended Wired Network:	Sent Packets: 493239 Received Packets: 479276

### Management (Web): System Clock

Maintain the internal clock for the Range Extender by syncing with your computer's time. Your system clock settings need to be accurate in order for Logs and Wi-Fi Access Schedules to work correctly.

#### System Clock

Maintain the system clock settings by syncing the system time with the time on your computer. The Range Extender's clock is used to make sure your Access Schedules and logs function correctly and on time.

Current Time:  Month  Day  Year  
 Hour  Minute  Sec

---

Sync with your computer:

**Management (Web): System Logs**

System Logs are useful for viewing the activity and history of the Range Extender. The System Logs are also used by Amped Wireless techs to help troubleshoot your Range Extender when needed.

It is recommended that you enable all logs in the event that troubleshooting is required. All log entries are deleted each time the Range Extender reboots or is powered off.

## Management (Web): Upgrade Firmware

Amped Wireless continuously updates the firmware for all products in an effort to constantly improve our products and their user experiences. When connected to an active connection with Internet access, the Range Extender can automatically check for new firmware updates that are available by pressing **Check Now**. Follow the prompts to complete the upgrade process.

Before upgrading the firmware, remember to always save your current settings first by going to the [Save/Reload Settings page](#). The firmware upgrade process will reset the settings of the Range Extender to default settings.

**Manual Firmware Upgrade:** In the case that the Range Extender does not have access to the Internet, you can manually upgrade the firmware by downloading the firmware file from the Amped Wireless Elite Support website. The firmware update is downloaded as a zip file and you will need to have an unzipping program to

### Upgrade Firmware

The Range Extender uses software (Firmware) to operate. In the event that a new Firmware file is available, you may update it here. During the upgrade process, DO NOT power off the device to avoid damage to the Range Extender.

Current Firmware Version: v3.4.6.4  
Build Time: Wed Aug 13 16:30:35 CST 2014

**Important:**  
Before upgrading firmware, always save your current settings from the Save/Reload Settings page.

---

**Check for New Firmware Updates:**  
(Internet connection required.) **CHECK NOW**

---

**Or Manually Upgrade Firmware from a File:**  
Check the [Support Webpage](#) to see if there are any updates available for this product.

Select File:  No file chosen

open the file. Inside the file will be a text document with details on the current firmware release and instructions on how to upgrade the firmware.

To manually upgrade your firmware:

- a. Download the file from [www.ampedwireless.com/support](http://www.ampedwireless.com/support) and remember the location where you saved it. Firmware files may also be provided by Amped Wireless Elite Support Concierges.
- b. Click **Choose File** and locate the file.
- c. Click **Upload** to begin upgrading.

**Note:** Firmware files normally have a **.bin** file extension.



## Management (Web): Save and Reload Settings

Saving your current settings allows you to back-up your current settings which may be reloaded at a later time. This feature may be useful for testing new features and settings without having to worry about returning to a stable platform.

### To save current settings:

- a. Click **Save**
- b. Select a file name and location

You may also reset the Range Extender's settings to factory settings by pressing **Reset**. By resetting the Range Extender, you will lose all previous configurations and will need to run the Wizard again to reconnect to the Home Network.

**Save/Reload Settings**

Save your current Range Extender configurations to a file or reload previously saved configurations. If needed, you may also reset your Range Extender to factory default settings.

Save Settings to File:

Load Settings from File:  No file chosen

Reset Settings to Default:

### To load previously saved settings:

- a. Click **Browse**
- b. Locate the previously saved settings file
- c. Click **Upload** to restore the settings to the saved file

### Management (Web): Password Settings

By default, the Range Extender does not require a password to login to the web menu. If you wish to enable a password to protect unauthorized access to the web menu and Wizard, you may enter one here.

**Password**

Prevent unauthorized access to your Range Extender's web-based configuration menu by providing a user name and password. If no protection is necessary, leave these fields blank and you will not be prompted for a login and password when accessing this web menu.

New Login:

New Password:

Confirmed Password:

**APPLY** **RESET**

## ***TECHNICAL SPECIFICATIONS***

Wireless Standard: 802.11n, 802.11b/g

Frequency Band: 2.4 GHz

Wireless Speed: 300Mbps (Rx), 300Mbps (Tx)

Amplifier:

- 2 x High Power 2.4GHz Amplifiers
- 2 x Low Noise Amplifiers

Wireless Security: WEP, WPA, WPA2

Antennas:

- 1 x Detachable High Gain Antenna
- 1 x Internal High Gain Antenna

Ports: 2 x RJ-45 10/100 LAN ports

Mounting: Wall, Desktop

Warranty: 1 Year

Setup Requirements:

- Wireless 2.4GHz 802.11b/g/n Network  
(Will not work in 5GHz Wireless-N mode)

### *DEFAULT SETTINGS*

The default settings for your Range Extender are listed here. If for some reason you need to return your Range Extender back to default settings, hold down the Reset button on the side panel for 10 seconds. The Range Extender will reset back to factory settings as listed below:

IP Address: 192.168.1.240

Web Menu Access: <http://setup.ampedwireless.com>

SSID: Amped TAP-EX

## ***TROUBLESHOOTING & SUPPORT INFORMATION***

We are here to help. If you have any issues with your Range Extender please contact us.

To contact Amped Wireless' Technical Support use one of the following methods:

Phone: 888-573-8820 or 909-217-3168

Email: [techsupport@ampedwireless.com](mailto:techsupport@ampedwireless.com)

Web: [www.ampedwireless.com/support](http://www.ampedwireless.com/support)

## Troubleshooting

The tips in this guide are listed in order of relevance. Try solution (a) before trying solution (b), etc.

### Troubleshooting: Home Network Connection Issues

#### **I cannot connect to my Home Network. I received an error when running the Setup Wizard.**

- a. Your Home Network may be secured. Double check that you have the correct Security Key to connect to the Home Network.
- b. Your Range Extender may be located too far from your Home Network. Run through the Setup Wizard again. On the SCAN screen, your Home Network should show a signal strength of 70% or greater. If it does not, move the Range Extender closer to your Home Network and try again.
- c. Check to see that your Home Network router's DHCP server is enabled. The Range Extender needs to obtain an IP from your Home Network router.

**I cannot find my Home Network when scanning for Wi-Fi networks in the Setup Wizard.**

- a. The Range Extender may be out of range. Move the Range Extender closer to the Wi-Fi router and try the Setup Wizard again from the Touch Screen Menu. It is recommended that your Home Network shows a signal strength of 70% or greater in the Wizard SCAN results.
- b. The Home Network may be a dual band Wi-Fi router. The Range Extender supports 802.11b/g/n 2.4GHz routers. If your Home Network uses a dual-band router, it will not work with the Range Extender. Adjust the dual-band router's configuration to disable the 5GHz band.
- c. From the touch screen Dashboard, go to Settings then the Wi-Fi Settings menu to access Wireless Coverage settings. Make sure the setting is at 100% and try again.
- d. Make sure that your Home Network's Wi-Fi SSID is broadcasting and not hidden. If your Home Network SSID is hidden, you will need to manually setup the Range Extender through the Wi-Fi Settings > Home Network Settings menu.

**My Range Extender was working fine previously, but now I can no longer access the Internet through the Range Extender. Or, I had a **POWER OUTAGE** and now the Range Extender no longer works.**

- a. The connection to your Home Network has been dropped. This can be caused by several events to your home Wi-Fi connection. When this occurs, simply run the Setup Wizard again from the Touch Screen Menu and reconfigure the Range Extender.

- b. The Range Extender automatically reconfigures itself in the event of a channel change on your router. However, in the case that it does not, check to see that your home Wi-Fi router settings have not changed. Any changes to the SSID, security, or channel number from the original settings will disconnect the Range Extender's connection to the home network. **A power outage can cause a change in the channel of your router.** To solve this simply run the Setup Wizard again from the Touch Screen Menu and reconfigure your Home Network connection. You can also set a static channel number on your router to prevent this from happening again in the future.
- c. Check to see that your home Wi-Fi router is still on. If it has been turned off please turn it back on. The Range Extender should automatically reconnect to your Home Network within 10 minutes.
- d. If the range extender does not automatically reconnect, try rebooting the Range Extender by unplugging the power cable and plugging it back in.

**I have a dual-band router and I cannot extend it.**

- a. Log into the Web Menu for your dual-band Wi-Fi router and adjust the Wi-Fi settings. Change the Wi-Fi band to 2.4GHz single band mode only. The Range Extender will not be able to extend the 5GHz band.



**I cannot find any Wi-Fi networks (Home Networks) to extend.**

- a. The Range Extender may be out of range. Move the Range Extender closer towards the Wi-Fi router and try the Setup Wizard again from the Touch Screen Menu.
- b. The antenna on your Range Extender may be loose. Tighten the antenna connection and try again.
- c. The Wi-Fi Home Network may not be a compatible Wi-Fi network (802.11b/g/n).

**I am connected to a Home Network, however, I do not have Internet Access.**

- a. The Home Network itself may not have Internet access. Check to see that you have internet access by connecting directly to the Home Network first. If you are able to go online then this is not a problem. If you cannot go online, then the Home Network's Internet connection must first be resolved.
- b. You may have a DNS issue and the Range Extender is not obtaining the IP settings from your Home Network. Try to reboot the Range Extender and then access a website. If that fails, then reboot the Home Router to see if that fixes it.
- c. There may be an IP conflict with your Home Network and your Extended Network. Try to adjust the IP Settings of your Extended Network using IP values that are different from your Home Network.

**I can no longer connect to the Range Extender wirelessly.**

- a. Power on and off the Range Extender and try again.
- b. The connection to the Home Network may be down. Run through the Setup Wizard again. After you have successfully reset the Home Network connection, try connecting wirelessly again.

**The connection to the Home Network seems slow. File transfers take a long time to transfer.**

- a. You may be too far away from your Home Network. The closer the Range Extender is to your Home Network, the better its connection will be. The Range Extender must have a strong signal in order to extend the signal with fast speeds and further range. Move the Range Extender closer to your Home Network and try again.

### Troubleshooting: Touch Screen Issues

#### **I forgot the touch screen passcode for the Range Extender and can no longer access the Touch Screen Menu.**

- a. Once you have exhausted all attempts at recovering your passcode, reset the Range Extender to default settings by holding the reset button, located on the right side of the Range Extender, for 5 to 10 seconds. The Range Extender will reboot and erase all current settings. You will need to reconfigure the Range Extender.

#### **The touch screen turns off too quickly.**

- a. From the Dashboard screen, tap on Settings. Tap on Management Settings and then Screen Settings. This screen will allow you to adjust the timeout time for the screen to turn off when there is an interval of no activity.

### Troubleshooting: Wireless Issues

**I am only getting 3 or 4 wireless signal bars on my wireless computer and I am within 10 feet of the Range Extender.**

- a. Step back at least 10 feet from the Range Extender and check your signal again. The Range Extender emits high power, long range Wi-Fi signals that may confuse your wireless adapter signal reading at close range. The speed and signal are at 100%, however your readout may not be displaying the data correctly.
- b. Check that your antenna is fastened tightly to the antenna connector.
- c. The wireless channel that your network is running on may be congested. Change the wireless channel on your home Router and reconnect the Range Extender.

**The range from the Range Extender seems low.**

- a. Check to see that your Wi-Fi output settings are at 100%. From the Dashboard, go to Settings, then to the Wi-Fi Settings menu and access the Wireless Coverage settings. Make sure the output power is at 100%.

- b. Your Range Extender may be installed in a poor location. Avoid setting up your Range Extender in areas with high interference, such as near refrigerators, microwaves, metallic objects and low surfaces. Install the Range Extender in a higher location if possible.
- c. Check the connections of the Antenna to the Range Extender. Tighten it if necessary.
- d. Adjust the Antenna of the Range Extender in different angles.

### Troubleshooting: Web Menu Access Issues

#### **I entered <http://setup.ampedwireless.com> and it failed to open the Web Menu.**

- a. Make sure your computer is connected to the Range Extender's Wi-Fi network: Amped TAP-EX
- b. Try to use a different web browser. We recommend the Google Chrome web browser.
- c. Try to open your web browser to the default IP address by putting this number into your web browser instead: 192.168.1.240
- d. Power off (unplug the power adapter from the Range Extender) the Range Extender and power it back on. Try again.
- e. Reset your Range Extender to default settings by holding the Reset Button (located on the side panel) for ten (10) seconds and try again.
- f. If steps (a) thru (e) fail, disconnect your PC from all Wi-Fi networks. Attach an Ethernet cable between the Range Extender and your PC. Try to access <http://setup.ampedwireless.com> again.

#### **I could NEVER log onto the Range Extender wirelessly.**

- a. Check that your Wi-Fi adapter supports WPA2 Wi-Fi security. If it does not then you will need to change the Wi-Fi security on the Range Extender. Go to the Web Menu, select Wi-Fi Settings and then Wi-Fi

Security. Select the Extended Network from the drop down menu and either disable security or downgrade the security to WEP. Try connecting again.

- b. The connection to the Home Network may be down. Use an Ethernet cable and connect directly to the Range Extender with a PC. Access the Web Menu by opening your PC's web browser to <http://setup.ampedwireless.com> and run through the Wizard again. After you have successfully reset the Home Network connection, try connecting wirelessly again.
- c. If you have previously connected to the Range Extender or a device with the same network name (SSID), the password might be saved in your devices Wi-Fi profile. Delete the Wi-Fi profile and try again. (Refer to your device Manufacturer's guide on how to delete the Wi-Fi profile.)

**I can no longer access the Web Menu or the Range Extender no longer responds.**

- a. Connect to your Range Extender and try to access <http://setup.ampedwireless.com> using your web browser.
- b. If you are advanced in networking troubleshooting, log onto your home router's web interface. Look for the DHCP client list and try to find the IP address of your Range Extender assigned by your home router. Once you have it, connect to the Range Extender using an Ethernet cable. Open your web browser and enter the IP address into the address bar.

- c. Reset the Range Extender back to default settings and try the Wizard again. To reset the Range Extender back to default settings, push the Reset Button (on the side panel) for five (5) to ten (10) seconds then let go. After the Range Extender has fully reset, use an Ethernet cable (not included) and connect to the Range Extender. Login to the Web Menu at <http://setup.ampedwireless.com> and run through the Wizard.



## Troubleshooting: USB Storage & Other Miscellaneous Issues

### I cannot access my USB storage device after I plug it into the Range Extender.

Follow the instructions below for your operating system.

#### Windows 7 & Vista

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button.
- b. Click **Computer**.
- c. On the **Computer** page, the drive should appear on the left hand column under **Network** as **AMPED\_RE\_USB**.

To Map the Network Drive:

- a. Click the **Start** button.
- b. Click **Computer**.
- c. Click **Map Network Drive** from the top bar.
- d. Select a drive letter (any), then enter in the folder field:  
`\\AMPED_RE_USB` or `\\shared disk IP address`
- e. If the drive fails to open, click **browse** and locate **AMPED\_RE\_USB** under **Network**.

## Windows XP

To access the drive from your Windows desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Click the **Start** button.
- b. Click **My Computer**.
- c. Click on **My Network Places** and locate the drive named **AMPED\_RE\_USB**.

To Map the network drive:

- a. Click the **Start** button.
- b. Right click **My Computer** and select **Map Network Drive**.
- c. Select a drive letter (any), then enter in the folder field:  
**\\AMPED\_RE\_USB** or *\\sharedisk IP address*
- d. If the drive fails to open, click **browse** and locate **AMPED\_RE\_USB** under **Network**.

## Mac OS X

To access the drive from your Mac desktop:

Note: If the USB drive does not appear automatically under your Networked devices (Windows 7, Vista or Mac OS X), you will need to Map the Network Drive.

- a. Open **Finder**.
- b. On the left hand menu, under **Shared**, click **Amped USB**.

To Map the network drive:

- a. Open **Finder**.
- b. From the menu on the top of the desktop, select **Go**.
- c. Select **Connect To Server** from the drop down menu.
- d. Enter the address of the network drive: **AMPED\_RE\_USB** or *shared disk IP address*, then click **Connect**.

**The Range Extender freezes or I cannot access the web when a USB storage device is connected.**

- a. Remove the USB storage device from the Range Extender and reboot it by unplugging the power adapter. Once rebooted, try inserting the USB storage device again.
- b. Make sure your USB storage device is not corrupted and is working properly and try again.

**Additional USB Storage troubleshooting tips may be available online at the Amped Wireless Elite Support Center. Please check the Elite Support Center for the latest updates and features for USB Storage support.**

**My Wi-Fi Access Schedule is being erratic and not working at the correct times.**

- a. You need to adjust your Clock / Date settings from the Management Settings screen.

**Wi-Fi Protected Setup (WPS) is not working. Push button configuration does not detect the connection.**

- a. The Range Extender supports WPS connections however some companies may use proprietary code for their own push button configurations. Try connecting using the Windows wireless utility or Mac wireless utility instead.

## **WARRANTY AND REGULATORY INFORMATION**

### **The Amped Wireless (A division of Newo Corporation, Inc.) Limited Warranty**

**Warranty Period:** The Amped Wireless Limited Warranty is for one (1) year from the date of purchase for new products. Refurbished products carry the Limited Warranty for thirty (30) days after the date of purchase.

**Guarantee:** Amped Wireless warrants to the original purchaser that the hardware of this Amped Wireless product shall be free of defects in design, assembly, material, or workmanship.

**Conditions:** The Amped Wireless Limited Warranty is for repair or replacement only at the sole discretion of Amped Wireless. Amped Wireless does not issue any refunds for purchased product. In the event that Amped Wireless is unable to repair or replace a product (i.e. discontinued product), Amped Wireless will offer a credit toward the purchase of a similar product of equal or lesser value direct from Amped Wireless. Any repaired or replacement products will be warranted for the remainder of the original Warranty Period or thirty (30) days, whichever is longer. Amped Wireless reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued product. Amped Wireless reserves the right to revise or make changes to this product, its documentation, packaging, specifications, hardware, and software without notice. If any portion of the Amped Wireless Limited Warranty is found to be

unenforceable, its remaining provisions shall remain in effect. All costs of shipping the product to Amped Wireless shall be borne solely by the purchaser.

**Limitations:** IN NO EVENT SHALL AMPED WIRELESS' (NEWO CORPORATION'S) LIABILITY EXCEED THE AMOUNT PAID BY YOU FOR THE PRODUCT FROM DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT, ITS ACCOMPANYING SOFTWARE, ACCESSORIES OR ITS DOCUMENTATION. The Amped Wireless Limited Warranty does not apply if: (a) the product assembly has been opened or damaged, (b) the product or its software or firmware has been altered or modified, (c) the product has not been used and installed in accordance to Amped Wireless' instructions, (d) the product has been subjected to misuse, or negligence. Amped Wireless does not guarantee the continued availability of a third party's service for which this product's use or operation may require. The Amped Wireless Limited Warranty does not protect against acts of God, vandalism, theft, normal wear and tear, obsolescence and environmental damages such as, but not limited to, weather and electrical disturbances. The Amped Wireless Limited Warranty is the sole warranty for this product. There are no other warranties, expressed or, except required by law, implied, including the implied warranty or condition of quality, performance merchantability, or fitness for any particular purpose.

**How to Claim Warranty:** In the event that you have a problem with this product, please go to [www.ampedwireless.com/support](http://www.ampedwireless.com/support) to find help on solving your problem. In the event that you cannot and need to file a warranty claim, please call Amped Wireless' Customer Service or visit

[www.ampedwireless.com/support](http://www.ampedwireless.com/support) to fill out a Return Authorization (RMA) form and obtain a Return Authorization (RMA) number. A dated proof of original purchase and the RMA number is required to process warranty claims. You are responsible for properly packaging and shipping the product at your cost and risk to Amped Wireless. The bearer of cost related to shipping repaired or replaced product back to the purchaser will be at the sole discretion of Amped Wireless and determined based on the details of each RMA case. Customers outside of the United States of America are responsible for all shipping and handling costs including custom duties, taxes and all other related charges.

**Technical Support:** The Amped Wireless Limited Warranty is not related to the terms, conditions and policies of Amped Wireless' Technical Support offerings. For questions regarding support, please contact [techsupport@ampedwireless.com](mailto:techsupport@ampedwireless.com).

## Regulatory Information

**FCC Statement and Declaration:** Amped Wireless declares that this device complies with Part 15 of the FCC Rules and Regulations. Operation of this device is subject to the following two (2) conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**FCC Notice:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.



- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution and Safety Notices:** Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. Avoid use of this product near water or during an electrical storm as there may be a remote risk of electrical shock from lightning. This product may contain lead, known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. This device must always be used with a Listed Computer or device.

**Industry Canada Statement:** This Class B digital apparatus complies with RSS-210 and ICES-003 of the Industry Canada Rules. Operation of this device is subject to the following two (2) conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

**Radiation Exposure Statement:** This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

The transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

**Déclaration d'Industrie Canada :** Cet appareil numérique de classe B est conforme aux réglementations RSS-210 et ICES-003 d'Industrie Canada. Le fonctionnement de cet appareil est sujet aux deux conditions suivantes:

- (1) Cet appareil ne peut pas causer de brouillage préjudiciable.
- (2) Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant provoquer un dysfonctionnement.

**Déclaration d'exposition à la radiation :** Cet équipement respecte les limites d'exposition aux rayonnements IC définies pour un environnement non contrôlé. Cet équipement doit être installé et mis en marche à une distance minimale de 20 cm qui sépare l'élément rayonnant de votre corps.

L'émetteur ne doit ni être utilisé avec une autre antenne ou un autre émetteur ni se trouver à leur proximité.



tech support 888-573-8820  
e-mail [techsupport@ampedwireless.com](mailto:techsupport@ampedwireless.com)  
web [www.ampedwireless.com](http://www.ampedwireless.com)

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