

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

Call: 888-573-8830

Web: 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.





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.

<	Select a ⊢	lome Ne	twork	
Recomr	nended Signal:	>70%		Rescan
Select	Network	Ch.	Sec.	Signal
	JonesHome KimNetwork MyWiFi Amped_246 Castle	8 6 11 4 5	WPA WEP WPA2 WPS WEP	98% 87% 82% 68% 56%
More)	谷		Next

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
Enter Wi-Fi Security Key for Home Network:

Example SSID

Home Network

Lample Security

Internet Router

Security Key:

Next

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

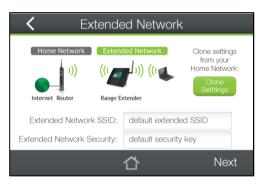
The default SSID of the Range Extender's Extended Network is "Amped TAP-EX".

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.

<	Summary				
	Setup Successfull Connect to your New Extended Network:				
	SSID: SSID Security Key: security key				
Show Connection Details					
	Dashboard Settings				

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.

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.

<u>Home Network SSID:</u> 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.

Vireless Settings (Home Network)			
Home Network SSID:			
Security Key:			
Hide Security Key: On			
Channel: 10 Security Type: WPA / WPA2			
🖒 Apply			



Wi-Fi Settings (Touch): Extended Network Settings

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

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

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

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

ig< Wireless Settings (Extended Network)			
Extended Network SSID:			
Security Key:			
Hide Security Key:	Yes		
Security Type:	WPA/WPA2		
	Apply		

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.

<u>Guest Network SSID</u>: This is the Identification name of your new Guest Network.

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

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

Vireless Settings (Guest Network)			
Enable Guest Network: On			
Guest Network SSID:			
Security Key:			
Security Type:	WPA/WPA2		
	C 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.

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



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.



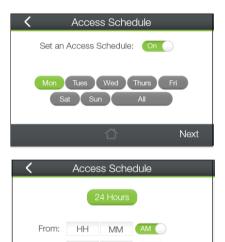
Wi-Fi Settings (Touch): Access Schedule

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:

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

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



MM

PM

Apply

HH

To:

22



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.

K Wi-Fi Protected Setup	
If your Wi-Fi device has WPS PBC, press the START button below and the WPS button on your Wi-Fi Device. Start WPS PBC	
<u>ث</u>	

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.





MANAGEMENT SETTINGS (TOUCH)

Management (Touch): Screen Settings

Manage the behavior and security of the LCD screen:

<u>Timeout</u>: 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)

<u>Show Clock After Timeout</u>: 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.

Clock / Date				
Set Clock:	HH	MM	AM O	
Set Date:	MM	DD	YYYY	
Show Clock After Timeout: On				
	谷		Apply	
	台		Apply	

Management (Touch): System Details

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

<u>Home Wi-Fi Network Settings:</u> 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.

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

<u>Extended Wi-Fi Network Settings:</u> 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.

K Home Network		
Security: Security Key: Channel: Signal Strength:	Connected Home Network SSID WPA password 6 75% 11.22.33.44.55.66	
í	$\sim \langle \bullet \bullet \bullet \rangle$	



<u>Device Details</u>: 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.

C Device Details			
Firmware Version: Build Time: Current Date/Time: Uptime:	#		
1	\sim < • • • >		

Management (Touch): Statistics

These statistics show the data activity for each network connection.

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

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

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

K Network Statistics			
Home Network:	Sent Received		
Extended Network:	Sent Received	000	
Wired Network:	Sent Received	000	
습			



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.

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.



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.

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



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.



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

- a. Attach the included antenna.
- Attach the Power Adapter to the Range Extender's PWR Port and an available power outlet.
- c. The Range Extender should boot up with the Amped Wireless logo and then the Dashboard screen should appear.
- d. 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 <u>http://setup.ampedwireless.com</u> into the web address bar
- c. If the web menu fails to open, type in the following IP address into your web address bar: <u>http://192.168.1.240</u>

30-1	http://setup.ampedwireless.com	•		>	×
🚖 Favorites			倚	Ŧ	2

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.



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.

If you do not see yo	and click Next below. ur network		ngth.	nge Estender
Home Network (SSID)	Channel	Security	Signal	Select
Network 1	1 (B+G+N)	WPA2-PSK	97%	0
Network 2	3 (B+G+N)	WPA-PSK/WPA2-PSK	93%	0
Network 3	1 (B+G+N)	WPA-PSK/WPA2-PSK	91%	۲
Network 4	1 (B+G+N)	WPA-PSK/WPA2-PSK	91%	0
Network 5	11 (B+G+N)	WPA-PSK/WPA2-PSK	87%	0
Network 6	11 (B+G)	WPA2-PSK	81%	۲
Network 7	2 (B+G+N)	WPA2-PSK	51%	0
Network 8	6 (B+G)	WEP	45%	0

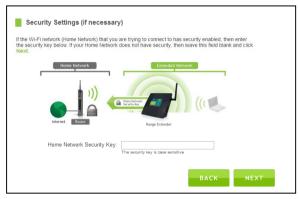


Connecting to a Secure Network

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
Isternet. Roder Barge Etternet	Extended Network SSID and Security Key
Copy settings from your Home Network or n	nanually configure them below: Clone Settings
Extended Network ID (SSID)	Extended Network Security Key
Home_Network_RE	Password
	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.

	ring your settings and connecting to the Home Network.
	The connection check will complete in 30 seconds.
	Do NOT close this page.
The Range Extended N	Extender will reboot during this time and you may be logged off the current Wi-Fi network. This is normal. Do NOT adjust any settings and wait for the countdown. You will be redirect to the final step when the countdown completes.



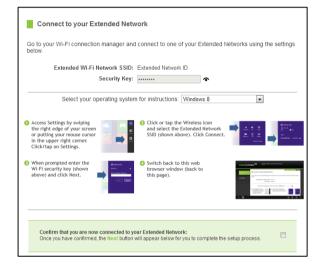
Connect to the new Extended Network

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.



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.

Setup Summary		
Congratulations, the Range Extender is	now successfully connect	ed to your Home Network.
PRIJ	THIS PAGE FOR YOUR RECOR	RDS:
Home Network Settings:		
SSID:	Network 1	
Channel Number:	1	
Encryption:	WPA2	
Security Key:	••••••	<u>۴</u>
BSSID:	00:00:00:00:00:00	
Connection State:	Connected	
Extended Network Settings		
SSID:	Amped_SR	
Encryption:	WPA2 Mixed	
Security Key:	••••••	<u> ۲</u>
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	
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)

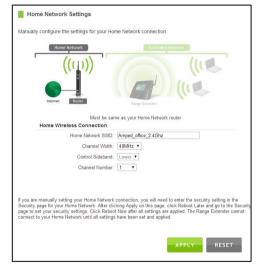
Home Network Settings

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.

<u>Home Network SSID:</u> Manually enter the Identification name of the Home Network you wish to connect to.

<u>Channel Number:</u> 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.



Wi-Fi Settings (Web): Extended Network Settings

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

<u>Band:</u> Allows you to setup access under a specific combination of Wi-Fi speed standards.

<u>Broadcast SSID</u>: 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 wire	eless network.
Home Network	Extended Network
(((1)))	
Internet Router	Range Extender
Extended Wireless Network Set	tings
Disable Wireless Connections: Band:	2.4 GHz (B+G+N) V
Broadcast SSID:	
SSID of Extended Network:	Amped_office_2.4Ghz_RE Guest Networks
Channel Number: VVMM:	1 (same as Home Network)
Associated Clients:	Show Active Clients
	APPLY



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).

<u>Associated Clients</u>: 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.

onfigure the	settings f	or additional Guest Net	work. The Guest Network may have its own spec	fic SSID and	security settings	i.
No.	Enable	Band	\$54D	Data Rate	Broadcast \$5ID	Active Client List
Guest		2.4 GHz (B+G+N) -		Auto 👻	Enabled +	Show



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.

Select Wireless Network:	
Extended: Home_Network	RE APPLY RESET
Encryption:	WPA-Mixed •
Authentication Mode:	Enterprise (RADIUS) Personal (Pre-Shared Key)
WPA Cipher Suite:	TKIP @ AES
WPA2 Cipher Suite:	TKIP @ AES
Pre-Shared Key Format:	Passphrase
Pre-Shared Key:	······

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: <u>www.ampedwireless.com</u>

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.

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

Home Ne	Extended Hetwork
((
Enable Wi-Fi Pi	i Protected Setup (WPS)
Enable Wi-Fi Pi	
Enable Wi-Fi Pi	rotected Setup If your wireless user has a Wi-Fi Protected Setup button, click or press the
Enable Wi-Fi Pi Option A:	orected Setup If your wireless user has a Wi-Fi Protected Setup button, click or press the WPS PBC (Pouh Button Configuration) button here:



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	
	rs by entering the MAC address of the device below. The digit hex number normally found on a label on the bottom of
Wireless Access Control Mode: MAC Address: Comment:	Disable •
	APPLY



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:

- a. Enable Access Schedule.
- b. Select which days you wish for your Wi-Fi to be available.
- c. Select the time frame during that day that you wish for Wi-Fi to be available.
- d. 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.



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.

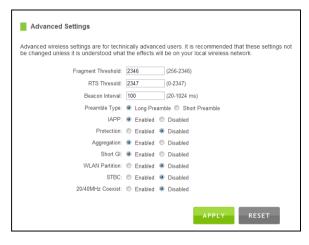
Here are a few definitions on some settings:

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

<u>RTS Threshold:</u> 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.

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



<u>Preamble Type:</u> 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)

<u>IP Address</u>: The IP address of the Range Extender. Subnet Mask: The subnet of the Range Extender.

<u>Default Gateway:</u> The access point to another network, normally the Range Extender or your router.

<u>DHCP</u>: 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 Exte	ender as well as the DHCP server for the Extended Network.
Home Hotwork	Exerciced Network
IP Address: Subnet Mask: Default Gateway: DHCP:	192.168.1.240 255.255.255.0 0.0.0 Client
DHCP Client Range:	192.168.1.100 - 192.168.1.200 Show Client
DHCP Lease Time: Domain Name: Auto-Load Menu (Auto-DNS):	480 (1 ~ 10080 minutes) ampedwireless
802.1d Spanning Type:	Disabled •
Clone MAC Address:	0000000000

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

<u>Static DHCP:</u> 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.

<u>Auto-Load Menu (Auto-DNS)</u>: 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.

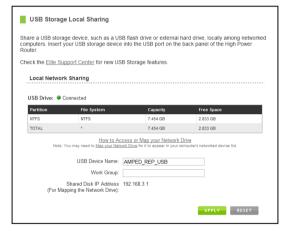
Domain Name: The Domain Name allows you to change the URL which is used to access the Setup Menu for the Range Extender. For example, entering http://setup.ampedwireless.com into your web browser while connected to the Range Extender, will guide you to the Web menu for the Range Extender. By changing 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.



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.

<u>System Information</u>: 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.

Device Status	
System Information	
	0day:1h:7m:2s
Firmware Version:	
Build Time:	Thu Jan 1 01:01:01 CST 2013
Current Date / Time:	1/01/2013 01:01:01
Home Network Wireless Se	ttings
Band:	2.4 GHz (B+G+N)
SSID:	Home_Network
Channel Number:	1
Encryption:	WPA2
Security Key:	······
BSSID:	00:00:00:00:00:00
Connection State:	Connected
Signal Strength:	79%

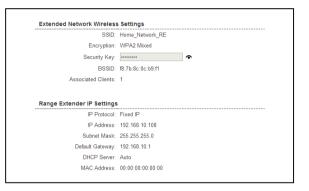
<u>Home Wi-Fi Network Settings:</u> This section displays the current status of the connection between the Range Extender and your Home Network. When viewing this section, it is important to check that your Home Network SSID is correct and the channel number matches your Home Network's channel number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

<u>Connection State:</u> 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.

<u>Range Extender IP Settings</u>: 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.

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

<u>Extended Wi-Fi Network:</u> These statistics show all data activity for all users wirelessly connected to 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		

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



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 2013 Year 1 Hour 1 Minute 1 Sec			
	Sync with your computer: Sync			
	APPLY RESET REFRESH			

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.



<u>Manual Firmware Upgrade</u>: 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

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 <u>www.ampedwireless.com/support</u> 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

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: Save			
Load Settings from File: Choose File No file chosen Upload			
Reset Settings to Default: Reset			

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

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.



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

Web: 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. <u>A power outage can cause a change in the</u> <u>channel of your router.</u> 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.

 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 <u>http://setup.ampedwireless.com</u> 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 <u>http://setup.ampedwireless.com</u> 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 <u>http://setup.ampedwireless.com</u> 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** \\shareddisk 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 to find help on solving your problem. In the event that you cannot and need to file a warranty claim, please call Amped Wireless' Elite Support or visit <u>http://www.ampedwireless.com/support/center.html#rma</u> to obtain a Support Ticket Number (obtained from Technical Support Reps), 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 Elite Support offerings. For questions regarding support, please contact 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 lighting. 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.

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Product wireless range specifications are based on performance test results. Actual performance may vary due to differences in operating environments, building materials and wireless obstructions. Performance may increase or decrease over the stated specification. Wireless coverage claims are used only as a reference and are not guaranteed as each wireless network is uniquely different.

Maximum wireless signal rates are derived from IEEE 802.11 standard specifications. Actual data throughput may vary as a result of network conditions and environmental factors.

Wi-Fi Range Extenders may not work with non-standard Wi-Fi routers or routers with altered firmware or proprietary firmware, such as those from third party sources or some Internet service providers. May not work with routers that do not comply with IEEE or Wi-Fi standards.



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Dispute Resolution / Arbitration

This section describes how you agree to resolve any disputes with Amped Wireless regarding these Terms of Use or your purchase of any product from Amped Wireless and your use of that product. You and Amped Wireless agree to the following resolution process.

To begin with, you agree that any claim that you might have against us regarding these Terms of Use or your purchase of any Amped Wireless product or use of that product must be resolved through binding arbitration before the American Arbitration Association using its Commercial Arbitration Rules. The arbitrator shall have exclusive authority to the extent permitted by law to resolve all disputes arising out of or relating to the interpretation, applicability, enforceability, or formation of our agreement, including, but not limited to, any claim that all or part of this agreement is void or voidable. The arbitrator shall also have exclusive authority to the extent permitted by law to resolve and Amped Wireless.

Because we prefer to resolve our issues with you directly, you agree to arbitrate with Amped Wireless only in your individual capacity, not as a representative or member of a class. As such, your claims may not be joined with any other claims and there shall be no authority for any dispute to be arbitrated on a class-action basis or brought by a purported class representative.

It is important that you understand that the arbitrator's decision will be binding and may be entered as a judgment in any court of competent jurisdiction. If the arbitrator rules against Amped Wireless, in addition to accepting whatever responsibility is ordered by the arbitrator, we will reimburse your reasonable attorneys' fees and costs.

It's important to us that we address any issues you might have promptly. To help us do that, you agree to begin any arbitration within one year after your claim arose; otherwise, your claim is waived.

Unless you and Amped Wireless agree otherwise, any arbitration hearings will take place in the county where you reside. If your claim is for \$10,000 or less, you may choose whether the arbitration will be conducted solely on the basis of documents submitted to the arbitrator, through a telephonic hearing, or by an in-person hearing as established by the AAA Rules. If your claim exceeds \$10,000, the right to a hearing will be determined by the AAA Rules.

If your claim against Amped Wireless is for less than \$10,000, Amped Wireless will pay all arbitration fees. If your claim against Amped Wireless is for \$10,000 or more, you are responsible for paying your own portion of the fees set forth in the AAA's fee schedule for consumer disputes, and Amped Wireless will pay all remaining arbitration fees. If you believe you cannot afford the AAA's fee, you may apply to the AAA for a waiver.

As an exception to this arbitration agreement, Amped Wireless is happy to give you the right to pursue in small claims court any claim that is within that court's jurisdiction as long as you proceed only on an individual basis.

We would hope that our customer service agents could resolve any disputes you have with us without resorting to arbitration. Before initiating any arbitration proceeding, you agree to first discuss the matter informally with Amped Wireless for at least 30 days. To do that, please send your full name and contact information, your concern and your proposed solution by mail to us at: 13089 Peyton Dr. #C307, Chino Hills, CA 91709; Attn: Legal Department.

This Agreement and the rights of the parties hereunder shall be governed by and construed in accordance with the laws of the State of California, exclusive of conflict or choice of law rules.

The parties acknowledge that this Agreement evidences a transaction involving interstate commerce. Notwithstanding the provision in the preceding paragraph with respect to applicable substantive law, any arbitration conducted pursuant to the terms of this Agreement shall be governed by the Federal Arbitration Act (9 U.S.C., Secs. 1-16).

Mailing Address Only Amped Wireless 13089 Peyton Dr. #C307 Chino Hills, CA 91709 Email: legal@ampedwireless.com



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