

User's Guide

TAP-EX2 HIGHPOWER^{TT} TOUCH SCREEN AC750 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 AC750 Wi-Fi Range Extender
- Stylus
- Detachable High Gain Antenna
- Power Adapter
- Setup Guide
- CD: User's Guide & Installation Video
- Product Stand

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 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 2.4GHz Home Network to Extend

The Range Extender can extend a single 2.4GHz network, a single 5GHz network or both (2.4GHz and 5GHz) simultaneously. The wizard will walk you through the setup of the 2.4GHz network first, and then the 5GHz network.

Select the Wi-Fi network that you wish to extend. Check that your Wi-Fi Network has a signal strength of 70% or greater. If you wish to only extend a 5GHz network and not a 2.4GHz network, tap Skip to move on to the 5GHz network selection. Otherwise, tap Next to continue.

✓ Select a 2.4GHz Home Network				
Recom	mended Signal:	>70%)	Rescan
Select	Network	Ch.	Sec.	Signal
	JonesHome	8	WPA	98%
0	KimNetwork	6	WEP	87%
\bigcirc	MyWiFi	11	WPA2	68%
\bigcirc	Amped_246	4	WPS	56%
T	o extend 5.0GHz	: Wi-Fi only	/, press	Skip.
Mor	9	谷	Skip	Next

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 (2.4GHz)

If the 2.4GHz 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.

Select a 5GHz Home Network to Extend (5GHz)

Select the 5GHz Wi-Fi network that you wish to extend. Check that your Wi-Fi Network has a signal strength of 70% or greater.

If you have already selected a 2.4GHz network and do not wish to select a 5GHz network, tap Skip to continue. Otherwise, tap Next to continue.

If you fail to find any Wi-Fi networks, or your signal strength is

〈 Select a 5.0GHz Home Network				
Recom	mended Signal	>70%		Rescan
Select	Network	Ch.	Sec.	Signal
	JonesHome	8	WPA	98%
\bigcirc	KimNetwork	6	WEP	87%
\bigcirc	MyWiFi	11	WPA2	68%
\bigcirc	Amped_246	4	WPS	56%
To	o extend 2.4GH	z Wi-Fi only	, press	Skip.
More		谷	Skip	Next

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 (5GHz)

If the 5GHz 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 Range Extender features both a 2.4GHz and 5GHz Extended Network. The wizard will walk you through the setup of your 2.4GHz extended network first, and then the 5GHz extended network.

The default SSID of the Range Extender's Extended Network is "Amped TAPEX_2.4".

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 and repeat these steps for your 5GHz extended network.



The default SSID of the Range Extender's Extended Network is "Amped_TAPEX2_5.0".

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.

At this point you can connect your Wi-Fi devices to you Extended Network using the Wi-Fi network name and password on the screen.

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...

The failed connection page will provide you with information on why the connection failed. Read the instructions carefully and retry your connection. The tips below will help to solve common issues:

- a. Check to make sure your Home Network security settings are correct.
- b. On the SCAN page, check 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. If you are connecting to a dual band router, ensure that both the 2.4GHz and 5GHz networks show a signal strength of 70% or greater.
- 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 and run the Setup Wizard again.
- e. Check the internet connection on your Home Network wireless router. Connect directly to your router and attempt to access the web. If this fails, the problem is with your internet connection. Contact your broadband provider to fix this issue first before configuring the Range Extender.
- f. Try to reboot (unplug the power from the Range Extender 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 web browser: http://setup.ampedwireless.com

2.4GHz WI-FI SETTINGS (TOUCH SCREEN)

2.4GHz 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.

<u>Security Type:</u> 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.

〈 2.4GHz Home Network			
Home Network SSID:			
Security Key:			
Hide Security Key: On			
Channel: 10 Security Type: WPA / WPA2			
C Apply			

2.4GHz 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.

Security Type: Select the encryption method used by the Home

Network. This setting must match the Security Type setting of your Home Network router.

〈 2.4	4GHz Exten	ded Network	
Extended N	letwork SSID:		
	Security Key:		
Hide	Security Key:	Yes	
	Security Type:	WPA / WPA2	
	1	ŀ	Apply

2.4GHz Wi-Fi Settings (Touch): Guest Network

Guest Networks provide a separate Wi-Fi network, with unique settings for users to connect to. Select one of the four available Guest Networks.

Toggle the selected Guest Network to On to enable the Guest Network.

<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.



2.4GHz 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 888873 187394 公 More

2.4GHz 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.



2.4GHz 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 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.



2.4GHz 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, http://setup.ampedwireless.com.

C 2.4GHz 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

2.4GHz 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.





5GHz WI-FI SETTINGS (TOUCH SCREEN)

5GHz 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.

〈 5.0GHz Home Network	
Home Network SSID:	
Security Key:	
Hide Security Key: On	
Channel: 10 Security Type: WPA / WPA2	
습 Apply	

5GHz 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.

5GHz Wi-Fi Settings (Touch): Guest Network

Guest Networks provide a separate Wi-Fi network, with unique settings for users to connect to. Select one of the four available Guest Networks.

Toggle the selected Guest Network to On to enable the Guest Network.

<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.

5GHz 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.

5.0GHz Connected Devices < 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 公 More

5GHz 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.



5GHz 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 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.



5GHz 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.



5GHz 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.




BOOSTBAND TECHNOLOGY (TOUCH)

BoostBand Technology (Touch): Screen Settings

BoostBand Technology is a feature that increases the overall speed and performance of the Range Extender by streamlining dual band network traffic through a single Wi-Fi frequency band between the Router and Range Extender. Doing so optimizes network traffic through the fastest available frequency band.

BoostBand Technology can only be enabled when the Range Extender is connected to a dual band connection. By default

BoostBand Technology will use the faster, 5GHz band. If the 5GHz band is not available or becomes too weak, BoostBand Technology will automatically switch over to the 2.4GHz band.

While BoostBand Technology is enabled, Wi-Fi devices will still be able to connect to the Range Extender using 2.4GHz and 5GHz connections.



NETWORK SETTINGS (TOUCH)

Network Settings (Touch): IP Settings

IP Address: 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.

DHCP: The Range Extender includes a feature to help manage

 IP Settings

 IP Address:
 192.168.3.1

 Subnet Mask:
 255.255.255.0

 Gateway:
 77.77.77.77

 DHCP:
 Server

 OHCP Range:
 192.168.3.100

 HCP Range:
 192.168.3.200

the IP addresses within your Extended Network and with your Home Network automatically. 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.

<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.

Network Settings (Touch): Wired Port Routing

If the Range Extender is connected to a dual band router, the Range Extender will automatically route the traffic from the device connected to the Range Extender's wired port through the 5GHz Home Network to access the web with the fastest speeds. If you choose, you may adjust this setting so that all wired traffic is routed through the 2.4GHz Home Network connection instead.

If the Range Extender is only connected to a single Home Network, it will automatically route all wired traffic through the Home Network connection that is active.

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)



Screen Settings

<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 Internet.

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.

<u>Home Wi-Fi Network Settings:</u> This section displays the current status of the connection between the Range Extender and your 2.4GHz or 5GHz 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.

Extended Wi-Fi Network Settings: This shows the current settings for your 2.4GHz or 5GHz 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 Extended Net	etwork 2.4GHz
Security: Security Key: IP Mode:	password
1	☆く••••>

<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.



Management (Touch): Statistics

These statistics show the data activity for your 2.4GHz or 5GHz connections.

<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.

2.4GHz Net	work Statis	stics
Home Network:	Sent Received	000
Extended Network:	Sent Received	
1	<u>م</u> <	••• >

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, 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, 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, http://setup.ampedwireless.com.

Management (Touch): Reset Settings

Reset the Range Extender's settings to factory settings by pressing Reset. By resetting the Range Extender will lose all previous configurations and will need to run the Setup Wizard again to configure the Range Extender's 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.
- b. 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_TAPEX2_2.4 or Amped_TAPEX2_5.0.





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	•		>	×
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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

The Scan result will list all available 2.4GHz and 5GHz wireless networks detected by the Range Extender – including each network name (SSID), the operating channel, the type of security and the signal strength.

If you are extending a dual band router, you will need to select the SSID of your 2.4GHz network and the SSID of your 5GHz network.

The signal strength indicates the wireless connection between that network and the Range Extender. It is important to choose networks that are greater than 70%. A wireless network with a signal strength of less than 70% may create a poor connection which results in slower



throughput and frequent dropped connections. If you fail to find any wireless networks, or your signal strength is below 70%, try moving the Range Extender closer to the wireless network that you are trying to repeat and click SCAN again.

Once you have selected your wireless network(s), click Next to continue. If you are only connecting to one network, simply select that 2.4 or 5GHz network and click Next to continue.

Connecting to a Secure Network

If the wireless network(s) you are trying to repeat has wireless security enabled, you will be prompted to enter a security key. If you are repeating a dual band router, you will need to enter the security key for both the 2.4GHz and 5GHz network. If either network does not have security, leave the field blank.

After you have entered the security key(s), click Next to continue.

If you do not know the key to the network you are trying to repeat, then click Back and select another network.



Extended Network Settings (SSID and Security)

The default SSID of the Range Extender is "Amped_TAPEX2_2.4" and "Amped_TAPEX2_5.0".

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.

Click Next to apply the settings.

amped wireless.??	TAP-EX2 HIGHPOWER' TOUCH BOREEN WI-FT RANGE EXTENDER
Doment The states	The second secon
5.0GHz Extended Network ID (SBD) Anget, 12H:0, 5.1	2.40Hz Extended Network ID (\$5ID) Arrow, 12/F-0, 2.4
6.00Hz Extended Network Security I Council Minmun	Key 2.40Hz Extended Network Security Key
Load failer for a Second	Legen track for no socially Minue BACK MENT
	is 20% Simple Weaked Faces Constantion Ad a gate constant



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 or tablet 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.

Print the Setup Summary details and save it for future reference.

If you haven't already positioned your Range Extender in an optimal location, you may do so. All Range Extender settings are saved and 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.



Wired Port Routing

The Setup Wizard automatically selects the Home Network (2.4GHz or 5GHz) your wired devices will be routed through to connect to the Internet. If you wish to change this setting you may do so from the web menu by accessing Network Settings > Wired Port Routing.



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

The failed connection page will provide you with information on why the connection failed. Read the instructions carefully and retry your connection. The tips below will help to solve common issues:

- a. Check to make sure your Home Network security settings are correct.
- b. On the SCAN page, check 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. If you are connecting to a dual band router, ensure that both the 2.4GHz and 5GHz networks show a signal strength of 70% or greater.
- 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 and run the Setup Wizard again.
- e. Check the internet connection on your Home Network wireless router. Connect directly to your router and attempt to access the web. If this fails, the problem is with your internet connection. Contact your broadband provider to fix this issue first before configuring the Range Extender.
- f. Try to reboot (unplug the power from the Range Extender 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).

5GHz WI-FI SETTINGS

5GHz Wi-Fi Settings: Home Network Settings (5GHz)

The Home Network Settings (5GHz) page allows you to adjust settings for your 5GHz Home Network connection. These settings are for adjusting the Range Extender's Home Network connection after you have already gone through the Setup Wizard and wish to adjust your current configurations.

<u>Home Network SSID (5GHz)</u>: Manually enter the Identification name of the existing 5GHz 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.



<u>Channel Width:</u> Wi-Fi operates in two separate channel widths, 20Hz and 40Hz. 40Hz allows for faster speeds. Each Channel Width will have a different selection of wireless channels to choose from. Select the channel width you wish to use for your network. This setting must match that of your Home Network for a successful connection.



5GHz Wi-Fi Settings: Extended Network Settings (5GHz)

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

SSID of Extended Network: The name used to identify your Extended Network. This is the name that appears when a user scans for available Wi-Fi networks.

5.0GHz Extended Wireless Netwo	ork Settings
Disable 5.0GHz Wireless Connections:	
Band:	5 GHz (A+N+AC) 🔻
Broadcast SSID:	Enabled •
SSID of Extended Network:	Amped_TAPEX2_5.0 Guest Network
Channel Number:	40 (same as Home Network)
WMM:	Enabled •
Associated Clients:	Show Active Clients

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.

Guest Networks (5GHz)

Click "Enable" to create a Guest Network. Guest Networks provide a separate wireless network, with unique settings for users to connect to.

Band: Restrict the Wi-Fi protocol and speed used for the specific Guest Network.

SSID: This is the name of your Guest Network.

Data Rate: Restrict access to the Guest Network by setting a lower bandwidth by changing the data rate.

Broadcast SSID: Disable to hide your SSID from public view. Users will need to manually enter the SSID into their wireless software interface to connect.

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

To set security settings for the Guest Network go to: 5GHz Wi-Fi Settings > Security.

iuest Networks	•						
onfigure the settin	gs for a	dditional Guest Networ	ks. Each Guest Network may hav	e its own specifi	: settings.		
No.	Enable	Band	5140	Data Rate	Broadcast \$540	WMM	Active Client List
Guest Network 1		5.0 GHz (B+G+N) 💌	Amped_TAPEX2_5.0_Guest_1	Auto v	Enabled v	Enabled v	Show
Guest Network 1 Guest Network 2			Amped_TAPEX2_5.0_Guest_1 Amped_TAPEX2_5.0_Guest_2	Auto v	Enabled v Enabled v	Enabled v Enabled v	Show
	2	5.0 GHz (B+G+N) .					



5GHz Wi-Fi Settings: Security

Wireless security allows you to change the type of wireless security settings for your 5GHz Extended Network, Home Network or Guest Networks.

Note: If you adjust the security of your Home Network and it is incorrect, the Range Extender will no longer have a successful connection to your Home Network.

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

If you are using the Guest Network feature, you will be able to adjust the security settings for those additional network SSIDs here as well.

For more information on the differences between the types of

Wi-Fi security available, please visit the Learning Center on the Amped Wireless website: www.ampedwireless.com

Extended Network - A	mped_REC15A_5.0 V APPLY RESET
Encryption:	WPA
Authentication Mode:	C Enterprise (RADIUS) Personal (Pre-Shared Key)
WPA Cipher Suite:	TKIP 🗹 AES
Pre-Shared Key Format:	Passphrase



5GHz Wi-Fi Settings: Wi-Fi Protected Setup – WPS

WPS is a Wi-Fi feature created to make Wi-Fi setup simple and easy. Some wireless 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:

Enable Wi-Fi Pr	otected 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:
	Start PBC
Option B:	If your wireless user asks for the Range Extender's PIN number, use this number on the user's device: 88888888
Option C:	If your wireless user has a Wi-Fi Protected Setup PIN number, enter that number here:
	and then click Start PIN

- Option A: Push button: You may push the WPS button on the web menu or use the physical button on the back of the Range Extender.
- Option B: PIN: Some wireless devices use a PIN number to access wireless network. If your wireless device requests for a PIN number, then use the PIN code located here.
- Option C: Enter PIN: Some wireless devices require that you use a PIN number to add them to the wireless network. If your wireless device has a PIN number, then locate the number and enter in the field, then press Start Pin.



5GHz Wi-Fi Settings: User Access

User Access allows you to deny access or allow access to specific users connecting to the network. Each networking 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 (5.0GHz)	
	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:	Allow Listed
	APPLY

A MAC Address may sometimes be referred to as a Physical Address. Most networking devices have their MAC Address located on a label on the actual device.

For Windows computers with internal networking adapters, the MAC Address can be found by viewing the Network Connection Details of the network adapter. The MAC Address will be listed as the Physical Address.

Be sure to enter the MAC Address without any symbols. For example, a MAC Address of 78-DD-78-AA-78-BB would be entered as 78DD78AA78BB.

5GHz Wi-Fi Settings: Wireless Coverage Controls

Adjust the output power of the Range Extender to control the coverage distance of your 5GHz Extended Wireless Network. For a smaller coverage area you can select a lower output power. For the maximum wireless coverage select the 100% selection. Note that if you select a lower output power, your connection to your 5GHz Home Network will also decrease in range. It is recommended that you test your signal strength after each adjustment.



5GHz Wi-Fi Settings: Access Schedule

Access Schedules will enable or disable your 5GHz wireless access at a set time based on your predefined schedule. This feature is often used for restricting access to all users (such as children, employees, guests) during specific times of the day for parental control or security reasons.

- 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.

Enabling Access Schedule will also disable 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.

A	ccess Sche	edule (5.0GHz)			
				bled or disabled on th een configured before	e High Power Range Extender. Ple e using this feature.	ase be
Note: \	When Wi-Fi is d	isabled,	wired users will	no longer have access to	the internet.	
C	Enable Day	Access	Schedule (5.0	GHz)	*-	
Enable			From		To	
	Sunday	-		r) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	-		r) 00 - (min)	00 - (hour) 00 - (min)	
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	Sunday	-	00 - (hou	r) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	•	00 - (hou) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	•	00 - (hou	r) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	•	00 - (hou) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	-	00 - (hou	r) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	•	00 - (hou) 00 - (min)	00 - (hour) 00 - (min)	
	Sunday	-	00 - (hou) 00 - (min)	00 - (hour) 00 - (min)	
5GHz Wi-Fi Settings: Advanced Settings

Advanced Wireless Settings should only be adjusted by technically advanced users. It is not recommended that novice users adjust these settings to avoid degrading wireless performance. Here are a few definitions on some settings.

Fragment Threshold: The Default and Recommended setting is at 2346, meaning the High Power Range Extender will never fragment any frames that it sends to wireless users.

RTS Threshold: Adjusts the size of RTS data packets. Lower values reduce throughput, but allow the system to recover

Advanced wireless settings are for techn be changed unless it is understood what		ced users. It is recommended that these settings not will be on your local wireless network.
Fragment Threshold:	2346	(256-2346)
RTS Thresold:	2347	(0-2347)
Beacon Interval:	100	(20-1024 ms)
Preamble Type:	Long Pre-	emble 🗇 Short Preamble
IAPP:	Enabled	Disabled
Protection:	C Enabled	Disabled
Aggregation:	Enabled	© Disabled
Short GI:	Enabled	© Disabled
WLAN Partition:	C Enabled	Disabled
STBC:	Enabled	Disabled
20/40MHz Coexist:	Enabled	Disabled

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 wireless network.

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

IAPP: Inter-Access Point Protocol

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

2.4GHz WI-FI SETTINGS

2.4GHz Wi-Fi Settings: Home Network Settings

The Home Network Settings (2.4GHz) page allows you to adjust settings for your 2.4GHz Home Network connection. These settings are for adjusting the Range Extender's Home Network connection after you have already gone through the Setup Wizard and wish to adjust your current configurations.

Home Network SSID (2.4GHz): Manually enter the Identification name of the existing 2.4GHz 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.

2.4GHz Wi-Fi Settings: Extended Network Settings

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

SSID of Extended Network: The name used to identify your Extended Network. This is the name that appears when a user scans for available Wi-Fi networks.

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

Disable 2.4GHz Wireless Connections:	
Band:	2.4 GHz (B+G+N) •
Broadcast SSID:	Enabled V
SSID of Extended Network:	Amped_TAPEX2_2.4 Guest Networks
Channel Number:	11 (same as Home Network)
WMM:	Enabled •
Associated Clients:	Show Active Clients

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

2.4GHz Wi-Fi Settings: Guest Networks

Click "Enable" to create a Guest Network. Guest Networks provide a separate wireless network, with unique settings for users to connect to.

Band: Restrict the Wi-Fi protocol and speed used for the specific Guest Network.

SSID: This is the name of your Guest Network.

 Configure the settings for additional Quest Interiors. Each Quest Interiors the last one specific settings.

 Non Each Quest Ques

Data Rate: Restrict access to the Guest Network by setting a lower bandwidth by changing the data rate.

Broadcast SSID: Disable to hide your SSID from public view. Users will need to manually enter the SSID into their wireless software interface to connect.

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

To set security settings for the Guest Network go to: 2.4GHz Wi-Fi Settings > Security.



2.4GHz Wi-Fi Settings: Security

Wireless security allows you to change the type of wireless security settings for your 2.4GHz Extended Network, Home Network or Guest Networks.

Note: If you adjust the security of your Home Network and it is incorrect, the Range Extender will no longer have a successful connection to your Home Network.

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

If you are using the Guest Network feature, you will be able to adjust the security settings for those additional network SSIDs here as well.

Extended Network - Ar	nped_REC15A_2.4 V APPLY RESET
Encryption:	WPA
Authentication Mode:	O Enterprise (RADIUS) O Personal (Pre-Shared Key)
WPA Cipher Suite:	TKIP AES
Pre-Shared Key Format:	Passphrase ¥
Pre-Shared Key:	•

For more information on the differences between the types of

Wi-Fi security available, please visit the Learning Center on the Amped Wireless website:

www.ampedwireless.com



2.4GHz Wi-Fi Settings: Wi-Fi Protected Setup - WPS

WPS is a Wi-Fi feature created to make Wi-Fi setup simple and easy. Some wireless 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:

Enable Wi-Fi Pr	otected 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:			
	Start PBC			
Option B:	If your wireless user asks for the Range Extender's PIN number, use this number on the user's device: 888888888			
Option C:	If your wireless user has a Wi-Fi Protected Setup PIN number, enter that number here:			
	and then click Start PIN			

- Option A: Push button: You may push the WPS button on the web menu or use the physical button on the back of the Range Extender.
- Option B: PIN: Some wireless devices use a PIN number to access wireless network. If your wireless device requests for a PIN number, then use the PIN code located here.
- Option C: Enter PIN: Some wireless devices require that you use a PIN number to add them to the wireless network. If your wireless device has a PIN number, then locate the number and enter in the field, then press Start Pin.



2.4GHz Wi-Fi Settings: User Access

User Access allows you to deny access or allow access to specific users connecting to the network. Each networking 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 (2.4GHz)	
	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:	Allow Listed •
	APPLY

A MAC Address may sometimes be referred to as a Physical Address. Most networking devices have their MAC Address located on a label on the actual device.

For Windows computers with internal networking adapters, the MAC Address can be found by viewing the Network Connection Details of the network adapter. The MAC Address will be listed as the Physical Address.

Be sure to enter the MAC Address without any symbols. For example, a MAC Address of 78-DD-78-AA-78-BB would be entered as 78DD78AA78BB.

2.4GHz Wi-Fi Settings: Wireless Coverage Controls

Adjust the output power of the Range Extender to control the coverage distance of your 2.4GHz Extended Wireless Network. For a smaller coverage area you can select a lower output power. For the maximum wireless coverage select the 100% selection. Note that if you select a lower output power, your connection to your 2.4GHz Home Network will also decrease in range. It is recommended that you test your signal strength after each adjustment.



2.4GHz Wi-Fi Settings: Access Schedule

Access Schedules will enable or disable your 2.4GHz wireless access at a set time based on your predefined schedule. This feature is often used for restricting access to all users (such as children, employees, guests) during specific times of the day for parental control or security reasons.

- 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.

Enabling Access Schedule will also disable 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 (2.4GHz)							
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: V	Note: When Wi-Fi is disabled, wired users will no longer have access to the Internet.						
	🗉 Enable	Access	Schedule (2.4GHz)				
Enable	e Day		From	То			
	Sunday	-	00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
	Sunday		00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
	Sunday		00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
	Sunday		00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
	Sunday		00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
	Sunday	•	00 - (hour) 00 - (min)	00 - (hour) 00 - (min)			
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	Sunday		00 v (hour) 00 v (min)	00 - (hour) 00 - (min)			

2.4GHz Wi-Fi Settings: Advanced Settings

Advanced Wireless Settings should only be adjusted by technically advanced users. It is not recommended that novice users adjust these settings to avoid degrading wireless performance. Here are a few definitions on some settings.

Fragment Threshold: The Default and Recommended setting is at 2346, meaning the High Power Range Extender will never fragment any frames that it sends to wireless users.

RTS Threshold: Adjusts the size of RTS data packets. Lower values reduce throughput, but allow the system to recover

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RTS Thresold:	2347	(0-2347)
Beacon Interval:	100	(20-1024 ms)
Preamble Type:	Long Pre	amble 🖱 Short Preamble
IAPP:	Enabled	Disabled
Protection:	C Enabled	Disabled
Aggregation:	Enabled	© Disabled
Short GI:	Enabled	C Disabled
WLAN Partition:	C Enabled	Disabled
STBC:	Enabled	Disabled
20/40MHz Coexist:	C Enabled	Disabled

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 wireless network.

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

IAPP: Inter-Access Point Protocol

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

BOOSTBAND™ TECHNOLOGY

BoostBand Technology is a feature that increases the overall speed and performance of the Range Extender by streamlining dual band network traffic through a single Wi-Fi frequency band between the Router and Range Extender. Doing so optimizes network traffic through the fastest available frequency band.

BoostBand Technology can only be enabled when the Range Extender is connected to a dual band connection. By default BoostBand Technology will use the faster, 5GHz band. If the



5GHz band is not available or becomes too weak, BoostBand Technology will automatically switch over to the 2.4GHz band.

While BoostBand Technology is enabled, Wi-Fi devices will still be able to connect to the Range Extender using 2.4GHz and 5GHz connections.

NETWORK SETTINGS

Network Settings: IP Settings

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 feature to help manage the IP addresses within your Extended Network and with your Home Network automatically. 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.

IP Address:	192.168.1.240
Subnet Mask:	255.255.255.0
Default Gateway:	0.0.0.0
DHCP:	Auto
DHCP Client Range::	192.168.1.100 - 192.168.1.200 Show Client
Static DHCP:	Set Static DHCP
Auto-Load Menu (Auto-DNS):	Enabled Disabled Note Disabling Auto-DNS will require that you access the web manu- uing the IF 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 manu, you will need to perform a handware result.
Domain Name:	ampedwireless
802.1d Spanning Type:	Disabled •
Clone MAC Address:	00000000000
	APPLY

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.

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 back panel for 5-10 seconds.



Network Settings: Wired Port Routing

If the Range Extender is connected to a dual band router, the Range Extender will automatically route the traffic from the device connected to the Range Extender's wired port through the 5GHz Home Network to access the web with the fastest speeds. If you choose, you may adjust this setting so that all wired traffic is routed through the 2.4GHz Home Network connection instead.

If the Range Extender is only connected to a single Home Network, it will automatically route all wired traffic through the Home Network connection that is active.



MANAGEMENT FEATURES

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: Device Status

The System 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 will display the current clock settings of the Range Extender. If this time is off, go to the System Clock section and configure your system time.

The Wired Ports Routing shows the active Home Network used for transferring data to and from the wired ports.

Home Wireless Network Settings: This section displays the current status of the connection between the High Power Range Extender and your Home Network (2.4GHz or 5GHz). When viewing this section it is important to check that your Home Network SSID is correct, that the channel number matches your Home Network's channel number settings.



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 High Power Range Extender.

Extended Wireless Network Settings: Shows the current settings for your Extended Wireless Network (2.4GHz or 5GHz).

IP Settings: The network IP settings for your Range Extender will change as you connect and disconnect from your 2.4 or 5GHz Home Network. When connected to your Home Network, the network IP settings will be assigned by your Home Network. When not connected, the High Power Range Extender will use its own default network IP settings. These IPs are assigned to the 2.4 and 5GHz networks individually.

Management: Network Statistics

These statistics show the data activity for each network connection.

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

Extended Wireless Network: These statistics shows all data activity for all users connected wirelessly to the Range Extender.

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



Management: 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 wireless access schedules to work correctly.

System Clock	
	clock settings by syncing the system time with the time on your computer. The ck is used to make sure your Access Schedules and logs function correctly and on
Current T	Ime: Month Day Year Hour Minute Sec
	Sync with your computer: Sync

Management: 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 Elite Support Concierges 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: 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.



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: Save/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.

Save/Reload Settings		
	er configurations to a file or reload previously Range Extender to factory default settings.	saved configurations.
Save Settings to File	Save	
Lord Cattlens from Cla	Browse. Choose File No file chosen	Uploaid
Load Settings from File:		

To save current settings:

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

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 Setup Wizard again to reconnect to a Home Network.



Management: Password Settings

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

Password			
	our Range Extender's web-based co on is necessary, leave these fields b cessing this web menu.		
New Login: New Password: Confirmed Password:			
		APPLY	RESET

TECHNICAL SPECIFICATIONS

Wireless Standard: 802.11a/b/g/n/ac Frequency Band: 2.4GHz & 5GHz Wireless Speed: 2.4GHz: 300Mbps (Tx/Rx) 5GHz: 433Mbps (Tx/Rx) Amplifier: 2 x 2.4GHz Amplifiers 1 x 5GHz Amplifier 3 x Low Noise Amplifiers Wireless Security: • WEP, WPA, WPA2, WPA Mixed, WPS User Access Control: • MAC address filtering

Wireless Access Scheduling:

• Specific day and time (2.4GHz or 5GHz Separately)

Wireless Coverage Control:

 15% - 100% Output Power (2.4GHz or 5GHz Separately) Antennas:

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

Ports:

- 3 x RJ-45 10/100M LAN Ports
- 1 x USB 2.0 Port

Mounting:

• Wall or Desktop Stand

Operating Temperature

• 0° - 40° C, 32° - 140° F

Warranty: 1 Year Setup Requirements:

• Wireless 802.11a/b/g/n or ac 2.4GHz or 5GHz Network

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 back 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

2.4GHz Extended Network SSID: Amped_TAPEX2_2.4

5GHz Extended Network SSID: Amped_TAPEX2_5.0

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 page, 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. If you are connecting to a dual band router, both networks (2.4GHz and 5GHz) should have a signal strength of 70% or greater.
- d. Check that the antenna is connected securely to the antenna connector.
- e. 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. 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.
- c. 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.

The Range Extender should automatically heal itself and reconnect to your wireless network. However, in the event that it does not and you are not able to access the Internet or your home network please try the following options:

- 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. Reboot the Range Extender, wait 3 minutes for the Range Extender to reconnect to your network and try to access the Internet.
- c. 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.
- d. 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.
- e. 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. The Range Extender will repeat the 2.4GHz signal and the 5GHz signal from your router simultaneously. Both wireless networks must have a signal strength of 70% or greater with the Range Extender for a reliable connection. Make sure that your dual band router is close enough to the Range Extender to receive a strong signal.
- b. Check to make sure that you have the correct security key for both the 2.4GHz and 5GHz network of your dual band router. These keys may sometimes be different from each other.
- c. Check that the antenna is connected securely to the antenna connector.
- d. Ensure that your dual band router does not have any security features enabled, such as MAC address filtering. If it does, disable it and try again.

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. Check that the antenna is connected securely to the antenna connector.
- d. The wireless Home Network may not be a compatible wireless network (802.11a/b/g/n/ac).

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.

- b. Check that the antenna is connected securely to the antenna connector.
- c. You may be downloading from the Internet and not within your Home Network or Extended Network. Files transferred through the Internet are limited by your ISP speed and the data download speeds from the website that you are downloading from.
- d. Your computer may be using an older Wi-Fi adapter with lower speed limits and range capabilities (802.11b/g/n).

Network devices connected to the wired ports of the Range Extender do not have Internet access.

a. The Wired Port Routing on the Range Extender may not be defined correctly. While connected to the Range Extender, open your web browser and access <u>http://setup.ampedwireless.com</u>. From the web menu, go to More Settings > Network Settings > Wired Port Configuration. Check that the wired port is routed through an active Home Network connection. If the Range Extender is connected to a 2.4GHz network only, adjust the routing so that all wired ports traffic routes through the 2.4GHz Home Network.

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 fridges, microwaves, metallic objects and low surfaces. Install the Range Extender in a higher location if possible.
- c. Check the connections of the Antennas to the Range Extender. Tighten them if necessary.
- d. Adjust the Antenna of the Range Extender in different angles.
- e. The wireless channel that your network is using may be congested. Change the channel for your router's 2.4GHz network or 5GHz network. The Range Extender should automatically reconnect to your networks new settings, however if it does not, simply reconfigure the Range Extender to your network.
- f. The network adapter that you are using may have poor range, older technology with slower speeds or may need a driver update.
- g. Your computer may be using an older Wi-Fi adapter with lower speed limits and range capabilities (802.11b/g/n).
- h. To achieve 802.11ac Wi-Fi speeds for your extended network, it is necessary to extend an 802.11ac Wi-Fi router. Check that your home router is an 802.11ac router. Extending a router with slower Wi-Fi speeds, such as 802.11b/g/n will result in slower Wi-Fi speeds for your extended network.

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_TAPEX2_2.4 or Amped_TAPEX2_5.0
- 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 from the power outlet) 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 top 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 wireless adapter supports WPA2 or WPA wireless security. If it does not then you will need to change the wireless security on the Range Extender. Go to the Web Menu, select Wireless Settings and then Wireless Security. Select the Extended Network from the drop down menu and either disable security or downgrade the security to WEP. Try connecting again.
- The connection to the Home Network may be down. Use an Ethernet cable and connect directly to the Range Extender. Access <u>http://setup.ampedwireless.com</u> and run through the Setup Wizard again. After you have successfully reset the Home Network connection, try connecting wirelessly again.

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.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible. This device is restricted to indoor use when operated in the 5.725 to 5.85 GHz frequency range.

FCC requires this product to be used indoors for the frequency range 5.725 to 5.85 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

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

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

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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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 decide the arbitrability of any claim or dispute between you 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).

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