Actiontec WEB7200 WiFi 6 Repeater User Manual

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Introduction

The Actiontec WEB7200 is a wireless network extender with dual concurrent radios supporting both 2.4GHz and 5GHz operation in 802.11ax. This allows the Extender to connect to everything from legacy wireless laptops, computers, and gaming platforms, up to the most current (and future) Apple and Android tablets, laptops, media platforms, and smartphones.

The Extender works by being placed in a central location of the home, or in a location where the existing wireless signal is weak, and then physically connected directly to your gateway/modem.

This physical connection not only extends the Wi-Fi signal.

If you would like to use the same Wi-Fi Network Name and Password as your Wi-Fi Router, you can sync them using the WPS buttons on the Router and the Extender. As a result, the Wireless Network Extender will take your router's current Wi-Fi network name.

The Wi-Fi password for both the 2.4 GHz and 5 GHz Wi-Fi extender networks will be the same as your existing Wi-Fi router.

For users with newer mobile devices, tablets, and laptops, connections through the 5GHz radio can markedly increase the performance and speed of your WiFi connection, while freeing up the 2.4GHz band for legacy or older devices.

Features

• Fast 802.11ax Wi-Fi wherever you need it

• Upgrade to 802.11ax speeds without replacing your router

• Dual band concurrent radio for wireless throughput up to 2Gbps

• 2x2 802.11ax 5 GHz radio

• 2x2 802.11ax 2.4 GHz radio

• Two Gigabit Ethernet ports

• USB 2.0 port

• WPA3, WPA2, WPA security with AES encryption

• Wi-Fi Protected Setup (WPS)

Getting to Know the Extender

This chapter describes the location and uses of the Extender's LEDs, ports, and buttons.

Front Panel

The front panel features one LED that will change to reflect the following situations:

• Flashing Green signifies Initial Bootup.

• After bootup completion, solid Blue signifies no backhaul connection, the unit is waiting end user to push the WPS button to initiate the pairing with residential gateway.

• After pushing the WPS button, if there is another Access Point trying to pair, the unit will flash Blue, signifying backhaul pairing process.

    • Once backhaul pairing with the residential gateway is complete, the unit will flash Blue and Yellow alternate, signifying weak signal in the back backhaul, if the signal is weak.

    • Once backhaul pairing with the residential gateway is complete, the unit will flash Blue and Red alternate, signifying very weak signal in the back backhaul, if the signal is very weak.

    • On backhaul pairing failure the unit will go back to solid Blue LED.

• After pushing the WPS button, if there is an station trying to pair, the unit will flash Blue and White alternate, signifying station pairing process.

    • Once pairing is complete, the unit will flash White and Green alternate for 10 seconds, signifying successful station pairing.

    • Once pairing is complete, the unit will flash White and Yellow alternate for 10 seconds, signifying failed station pairing.

• Operational states:

    • Solid White indicates problem-free wireless operation.

    • Blinking White indicates problem-free wireless operation but 2.4GHz band is off or disabled.

    • Blinking White and Red alternate indicates that 5GHz band is off or disabled, which prevents backhaul communication. The WEB7200 can’t communicate with the Internet.

    • Blinking Red indicates that both bands are off or disabled, which prevents backhaul communication. The WEB7200 can’t communicate with the Internet.

Back Panel

• Power port: used to connect the power adapter (external, 12V DC, 2A, made by Actiontec, model #CDS024T-W120U) to the Extender.

• Reset button: restores the Extender back to the original factory default settings when held down for at least 10 seconds.

• Dual-port Gigabit Ethernet switch: used for directly connecting the Extender to the gateway/modem.

Installing the Extender

There are two parts to installing an Extender: syncing the Wi-Fi settings, and placing and connecting the Extender.

Syncing Wi-Fi

To sync the Extender with the gateway/modem's Wi-Fi settings:

1. Place the Extender next to the gateway/modem.

2. Plug the Extender's power adapter into the Power port of the Extender, and the other end into an electrical wall outlet.

3. Wait until the WPS button on the Extender is flashing purple.

4. Press the WPS button on the Extender for ten seconds.

5. Press the WPS button on the gateway/modem for 2-3 seconds.

6. Make sure the WPS button on the Extender is glowing green. If the WPS button glows red, try syncing the Wi-Fi settings again. The Extender can also be manually configured to connect with the gateway/modem's wireless network (see "Wireless Setup" on page 14).

The Extender is now synced with the gateway/modem's Wi-Fi settings. Unplug the Extender and its power cable and continue on to the next section of this chapter, "Connecting the Extender."

Connecting the Extender

Now that the Extender is synced with the gateway/modem's wireless network, it can be placed in another area or room of the home/office.

1. Place the Extender in an area where the Wi-Fi signal is weak or spotty.

2. Plug the Extender's power adapter into the Power port of the Extender, and the other end into an electrical wall outlet.

3. If applicable, connect an Ethernet cable between one of the Extender's LAN ports and the Ethernet port on the wall or of a non-wireless device. (Wireless devices will connect via the wireless network.

4. Wait until the WPS button on the Extender is glowing solid green.

The Extender is now synced, installed, and extending the gateway/ modem's wireless network in a previously weak area.

Accessing the Extender's GUI

The Extender features an onboard graphical user interface (GUI) that includes user-configurable settings. Some of these settings should be accessed by experienced network technicians only.

To configure the network settings of the Extender:

1. Ensure that the Extender is connected to an Actiontec gateway/modem, and that both devices are powered on.

2. On a computer connected to the same network as the gateway/modem and Extender, log in to the gateway/modem's GUI. Find the list of devices that are connected to your gateway/modem.

3. Find the Extender by its MAC ID from the list of connected devices or status screen. The MAC ID of the Extender is provided on a sticker located on the rear panel of the Extender, as shown below.

4. Write down the IP address of the Extender.

5. Enter the IP address written down in step 4 in the address box of the web browser.

6. The Extender's Status screen appears. Enter the Extender's Username and Password (found on the label located on the back panel of the Extender; see second figure, below), in the User Name and Password text boxes in the upper right corner of the Status screen. The Extender’s GUI’s Status screen appears.

Status

The first GUI screen that appears is the Status screen, which can also be generated by clicking the Status icon in the menu bar. This screen contains basic information about the Extender's wireless status, network stations, and product information about the Extender. There are no configurable settings available in this screen.

Wireless Setup

Clicking the Wireless Setup icon from the menu bar of any of the Extender's GUI screens generates the Wireless Network List screen. Additional wireless settings can be accessed from the menu on the left side. These settings configure various aspects of the Extender's wireless network, and the majority of them should be adjusted by an experienced network technician only. The exceptions are the settings contained in the Basic Setup screen.

Wireless Network List

Selecting Wireless Network List generates the Wireless Network List screen (above). This screen displays various characteristics of the Extender's wireless networks.

Basic Setup

The Basic Setup wireless network screen contains various settings regarding the Extender's wireless network. When finished adjusting the settings in this screen, click Apply.

Multiple SSID

This option allows the user to setup different SSIDs (wireless networks) with different parameters. Select the option desired from the Multiple SSID drop-down menu.

Wireless Radio

This option turns the Extender’s wireless radio on and off.

SSID Broadcast

This option controls whether or not the name of the network is broadcast to other wireless devices (usually, in the device's available wireless network list). Select Enable or Disable by clicking in the appropriate radio button.

Transmit Power

This option controls the power of the Extender's wireless radio. We recommend leaving this setting at 100%.

Wireless Band

This option allows the user to select the bandwidth at which the Extender's wireless radio will operate.

Wireless Network Name

Enter the name of the wireless network in this text box.

Wireless Channel Width

This option allows the user to select the channel width at which the Extender's wireless radio will operate.

Wireless Channel Number

This option allows the user to select the channel number at which the Extender's wireless radio will operate.

Wireless Security Type

This option allows the user to select the type of security applied to the Extender's wireless network.

Password Phrase

This option allows the user to enter a custom password phrase or value.

Wireless Security

The Wireless Security screen allows the user to apply wireless security to the Extender's wireless network. This screen should be accessed by experienced network technicians only.

WPS

The WPS screen allows the Extender to accept wireless clients via Wi-Fi Protected Setup (WPS), an automatic wireless network connection protocol. Only experienced network technicians should configure the settings in this screen.

Advanced Wireless Setup

The Advanced Wireless Setup screen allows the Extender to be configured with multiple SSIDs.

Wireless Access Control

The Wireless Access Control screen contains a number of advanced settings regarding the Extender's wireless network. Only experienced network technicians should configure these settings.

Advanced Setup

Clicking the Advanced Setup icon from any of the Extender's GUI screens generates the Management screen, along with other advanced settings accessed through the menu on the left side. These settings

configure various administrative aspects of the Extender and its GUI. They should be adjusted by an experienced network technicians only.

Management

The Management screen allows the Extender's IP address settings to be modified. Only experienced network technicians should change these settings.

Factory Default

The Factory Default advanced setup screen allows the Extender's factory default settings to be reapplied, erasing all current settings. Click Restore Default Settings to restore the Extender to its factory default state.

Firmware Restore

The Firmware Restore screen lists the active and backup firmware versions available on the Extender. Click Swap Firmware to switch the active firmware to the backup firmware, and vice versa.

Firmware Auto Upgrade

The Firmware Auto Upgrade screen allows the user to designate a web link that the Extender checks periodically for firmware upgrades. To use, click on the Enable button to activate, enter the appropriate web address in the Check URL text box, then click Apply.

Firmware Upgrade

Actiontec periodically posts firmware upgrades that may include enhancements and/ or bug fixes for the Extender. To upgrade the Extender's firmware:

1. Go to http:/ /www.actiontec.com/ support/ to discover the latest firmware available for the Extender. If the version is the same as the current version applied to the Extender, there is no need to upgrade the firmware. If the online version is newer, download it to a notebook computer.

2. Make sure that this computer is connected to the Extender via Ethernet.

3. Locate the firmware file by clicking Browse.

Specifications

Model Number

WEB7200

Protocol/Standards/Support

Wireless IEEE 802.11ax
Ethernet IEEE 802.3/802.3u/802.3ab 10/100/1000 Base-T

LAN Interfaces

Two 10/100/1000 Ethernet Ports

Antennas

2x2 internal 2.4 GHz
2x2 internal 5 GHz

Power Adapter

Input 90-240VAC@ 0.5A
Output 12Vdc@ 2A
Made by Actiontec, model # CDS024T-W120U

Regulatory

FCC 15B, 15C, ISE
Canada ICES
UL, K.21
Wi-Fi, WPS
RoHS

Environmental

Operating temperature - 0°C to 40°C (32°F to 104°F)
Storage temperature - 0°c to 70°C (32°F to 158°F)
Operating humidity- 10% to 85% non-condensing
Storage humidity - 5% to 95% non-condensing
Altitude: -197 ft. to 7000 ft.

Note: Specifications are subject to change without notice.

Notices

Warranty

This product has a one-year Limited Hardware Warranty and 90-day free software updates from date of purchase.

Local Law

This Limited Warranty Statement gives the customer specific legal rights. The customer may also have other rights which vary from state to state in the United States, from province to province in Canada, and from country to country elsewhere in the world.

To the extent that this Limited Warranty Statement is inconsistent with local law, this Statement shall be deemed modified to be consistent with such local law. Under such local law, certain disclaimers and limitations of this Warranty Statement may not apply to the customer.

Go to http://www.actiontec.com/products/warranty.php for more information.

Important Safety Instructions

Basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

• Do not use this product near water - for example, near a bathtub, kitchen sink, laundry tub, or swimming pool, or in a wet basement; only clean with dry cloth.

• Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus including amplifiers that produce heat.

• Do not use the telephone to report a gas leak in the vicinity of the leak.

• Use only the power cord indicated in this manual if applicable.

FCC Class B Equipment

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 implementing one or more of the following measures:

• Reorient or relocate the device;

• Increase the separation between the equipment and receiver;

• Connect the equipment to an outlet on a circuit different from that to which the receiver is connected (applicable only to powerline products);

• Consult the dealer or an experience radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Actiontec Electronics, Inc., may void the user's authority to operate the equipment.

Declaration of Conformity

Declaration of Conformity for Products Marked with the FCC logo or Industry Canada (IC)- North America Only

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause harmful interference;

2. This device must accept any interference received, including interference that may cause undesired operation of the device.

Important Note on Wi-Fi

If applicable, this equipment complies with FCC/Industry Canada radiation exposure limits set forth for an uncontrolled environment.

The radio has been found to be compliant to the requirements set forth in CPR 47 Sections 2.1091, 15.247 (b) (4),15.407 addressing RF Exposure from radio frequency devices as defined in Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields. The equipment should he installed more than 30 cm (~ 12 in.) from your body or nearby persons.

For product available in the USA/Canada market, only channel l~11 can be operated. Selection of other channels is not possible.

The device could automatically discontinue transmission in case of absence of information to transmit, or operational failure. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

The device for the band 5150-5250 MHz is only for indoor usage to reduce potential for harmful interference to co-channel mobile satellite systems.

The maximum antenna gain permitted for devices in the band 5725-5825 MHz shall comp with the e.i.r.p. limits specified for point-to-point and non point-to-point operation as appropriate.

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

Contact Information

For questions regarding your product or the FCC/Industry Canada declaration, contact:

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