

## X10 RR501

# X10 Wireless Base Transceiver Module (RR501) Instruction Manual

## INTRODUCTION

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The X10 Wireless Base Transceiver Module (RR501) is designed to integrate wireless control into your X10 home automation system. This module responds to both Radio Frequency (RF) signals from X10 wireless remotes and X10 powerline signals, offering versatile control capabilities.

Unlike some other X10 transceivers, the RR501 features a built-in appliance module, allowing direct control of a connected device. It converts RF signals into X10 commands, which are then transmitted over your home's electrical wiring to other X10 receivers. The module can control up to 16 X10 receivers and sends status reports over the power line.



Image shows the X10 RR501 module, a white rectangular device with an extendable antenna on the right side. The front features a gray ON-OFF button at the top, and two rotary dials below it. The upper dial is labeled 'HOUSE' with letters A through P, and the lower dial is labeled 'UNIT' with numbers 1 through 16. The text 'Remote Module' is printed on the lower left front.

## SETUP

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1. **Power Connection:** Plug the RR501 module into a standard 120 VAC, 60 Hz power outlet.
2. **House Code Setting:** Locate the 'HOUSE' dial on the front of the module. Rotate the dial to select the desired house code (A-P) for your X10 system. This code must match the house code of your X10 transmitter and other X10 receivers you wish to control.
3. **Unit Code Setting:** Locate the 'UNIT' dial on the front of the module. Rotate the dial to select the desired

unit code (1-16) for the built-in appliance module. This code will be used to control the device plugged directly into the RR501.

4. **Appliance Connection:** Plug the appliance or light you wish to control into the outlet on the RR501 module.

**Important Note:** Use only one RF Base Transceiver Module or X10 Security Console per House Code. Using multiple transceivers on the same House Code can lead to X10 signal collisions and unreliable operation.

## OPERATING INSTRUCTIONS

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The RR501 module functions as a bridge between X10 wireless controllers and your X10 powerline system, while also providing a directly controllable appliance module.

- **Wireless Control:** When an X10 wireless remote (e.g., a handheld remote or wall switch) sends an RF signal, the RR501 receives it, converts it into an X10 command, and transmits it over your home's electrical wiring. This allows you to control other X10 receivers throughout your home.
- **Built-in Appliance Module Control:** The appliance or light plugged into the RR501's outlet can be controlled by both X10 RF remotes and X10 powerline controllers. Ensure the remote or controller is set to the same House and Unit code as configured on the RR501.
- **Status Reporting:** The RR501 is capable of sending status reports over the power line, providing feedback on the state of the connected appliance module.
- **ON-OFF Button:** The gray ON-OFF button on the top of the module can be used for local manual control of the connected appliance. Press to toggle the power state.

## MAINTENANCE

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The X10 RR501 module requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the module clean and free from dust. Use a soft, dry cloth for cleaning.
- Avoid exposing the module to excessive moisture or extreme temperatures.
- Ensure the module is plugged into a properly grounded outlet.

## TROUBLESHOOTING

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If you experience issues with your X10 RR501 module, consider the following:

- **No Response from Module:**
  - Verify the module is securely plugged into a live power outlet.
  - Check that the House and Unit codes on the RR501 match those of your X10 controller.
  - Ensure the appliance connected to the module is functioning correctly when plugged directly into a wall outlet.
- **Intermittent or Unreliable Control:**
  - Confirm that only one RF Base Transceiver Module or X10 Security Console is operating on the same House Code in your system. Multiple transceivers can cause signal collisions.
  - Check for sources of electrical noise on your power lines, such as power adapters, dimmer switches, or large appliances, which can interfere with X10 signals. Consider using X10 noise filters if interference is

suspected.

- Ensure the X10 wireless remote is within range and has fresh batteries.

- **Module Not Controlling Other X10 Receivers:**

- Verify that the other X10 receivers are correctly installed and set to the appropriate House and Unit codes.
- Confirm that the RR501 is receiving RF signals from your wireless remote.

## SPECIFICATIONS

|                            |                                                                 |
|----------------------------|-----------------------------------------------------------------|
| Manufacturer Part #        | RR501                                                           |
| Model Number               | 4005X                                                           |
| UPC                        | 099081120011                                                    |
| Power Requirements         | 120 VAC, 60 Hz                                                  |
| Load Rating (Resistive)    | 15 Amps                                                         |
| Load Rating (Incandescent) | 500W                                                            |
| Load Rating (TV)           | 400W                                                            |
| Load Rating (Motor)        | 1/3 HP                                                          |
| Dimmable                   | No                                                              |
| Dimensions (H x W x D)     | 4.25 x 2.75 x 1.25 inches (Product) / 6 x 4 x 3.2 inches (Item) |
| Item Weight                | 0.353 ounces                                                    |
| Operation Mode             | ON-OFF                                                          |
| Current Rating             | 15 Amps                                                         |
| Operating Voltage          | 120 Volts (AC)                                                  |
| Contact Type               | Normally Open                                                   |
| Connector Type             | Plug In                                                         |
| Terminal                   | Blade                                                           |
| Circuit Type               | 2-way                                                           |
| Actuator Type              | Push Button                                                     |
| Number of Positions        | 16                                                              |
| Control Method             | Remote                                                          |
| Connectivity Protocol      | X10                                                             |
| Compatible Devices         | X10 Receivers, X10 Remotes                                      |

## WARRANTY INFORMATION

The X10 Wireless Base Transceiver Module (RR501) comes with a **120-day warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

## SUPPORT

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For further assistance, technical support, or warranty inquiries regarding your X10 Wireless Base Transceiver Module (RR501), please refer to the official X10 website or contact their customer service department. Contact information can typically be found on the manufacturer's packaging or website.