

Motorola MG7315

Motorola MG7315 DOCSIS 3.0 Cable Modem and N450 WiFi Router Combo User Manual

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Motorola MG7315 DOCSIS 3.0 Cable Modem and N450 WiFi Router Combo. This device integrates a high-speed cable modem with a single-band N450 Wi-Fi router, offering a streamlined solution for internet connectivity. It features DOCSIS 3.0 technology for fast internet speeds up to 343 Mbps and includes four Gigabit Ethernet ports for reliable wired connections. The MG7315 is designed to provide a stable and efficient internet experience for various online activities, including streaming, gaming, and general browsing.

PACKAGE CONTENTS

Verify that all items listed below are included in your product package:

- Motorola MG7315 Cable Modem/Router Combo
- Ethernet Cable
- Power Adapter
- Coax Wrench
- Quick Start Guide

WHAT'S IN THE BOX



Image: The package contents for the Motorola MG7315, showing the main unit, an Ethernet cable, a power adapter, a coax wrench, and a quick start guide.

PRODUCT OVERVIEW

The Motorola MG7315 features a sleek vertical design with indicator lights on the front panel and all connection ports on the rear panel.

Front Panel Indicators





Image: Front view of the Motorola MG7315, displaying LED indicators for power, upstream/downstream activity, internet connection, Ethernet ports 1-4, Wi-Fi status, and WPS/security.

- **Power:** Indicates the device is powered on.
- **Upstream/Downstream Arrows:** Show data flow activity through the cable modem.
- **Internet Globe:** Indicates a successful internet connection.
- **Ethernet 1-4:** Lights up when a device is connected to the corresponding Gigabit Ethernet port.
- **Wi-Fi:** Indicates the wireless network is active.
- **Lock:** Indicates WPS (Wi-Fi Protected Setup) activity or security status.

Rear Panel Ports



ON/
OFF



POWER

• RESET



WLAN



WPS

ETHERNET



LAN1

LAN2

LAN3

LAN4

COAX





Image: Rear view of the Motorola MG7315, highlighting the power input, On/Off button, Reset button, WLAN/WPS button, four Gigabit Ethernet ports (LAN1-LAN4), and the coaxial cable connector.

- **Power On/Off Button:** Controls the power supply to the device.
- **Power Input:** Connects to the provided power adapter.
- **Reset Button:** Used to restart the device or restore factory default settings (requires a paperclip or similar pointed object).
- **WLAN/WPS Button:** Activates Wi-Fi Protected Setup for easy wireless device connection.
- **Ethernet Ports (LAN1-LAN4):** Four Gigabit Ethernet ports for wired connections to computers, gaming consoles, or other network devices.
- **Coax Connector:** Connects to your cable service line.

SETUP INSTRUCTIONS

Follow these steps to set up your Motorola MG7315 modem router combo.

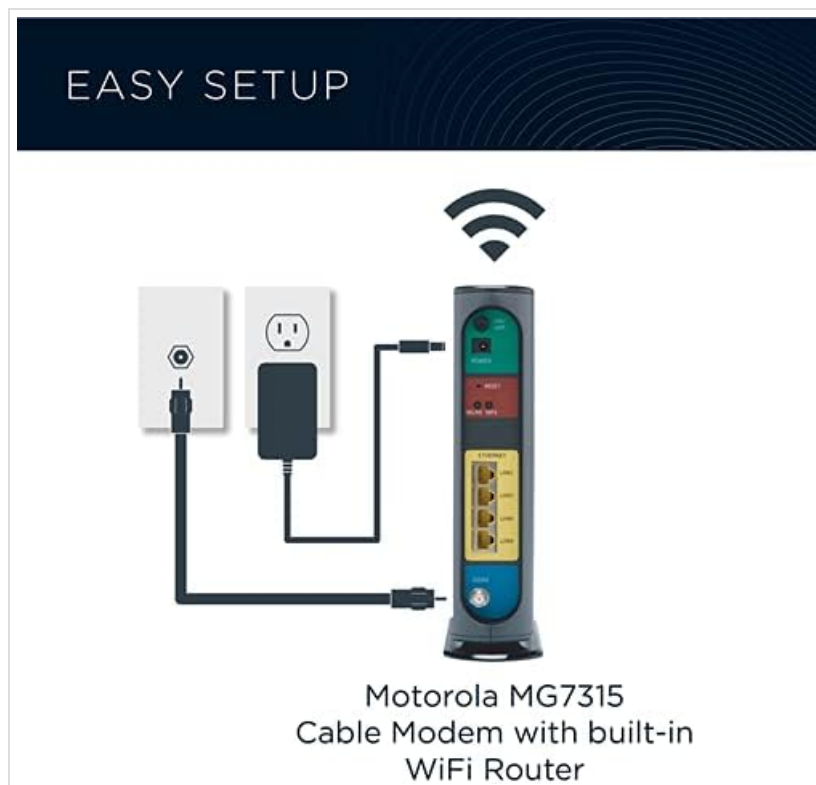


Image: A diagram illustrating the simple setup process: connect the coaxial cable from the wall outlet to the modem, then connect the power adapter to the modem and a power outlet.

Step 1: Connect the Coaxial Cable

1. Locate a coaxial cable outlet in your home.
2. Connect one end of the coaxial cable (not included) to the wall outlet.
3. Connect the other end of the coaxial cable to the COAX connector on the rear panel of your MG7315. Ensure the

connection is finger-tight. You may use the included coax wrench for a secure fit.

Step 2: Connect the Power Adapter

1. Connect the provided power adapter to the Power Input on the rear panel of the MG7315.
2. Plug the other end of the power adapter into an electrical outlet.
3. Press the Power On/Off button on the rear panel. The Power indicator light on the front panel should illuminate.
4. Allow a few minutes for the modem to establish a connection. The Upstream/Downstream arrows and the Internet Globe indicator should eventually turn solid green, indicating a successful connection.

Step 3: Activate with Your Internet Service Provider (ISP)

Your Motorola MG7315 is compatible with major cable internet service providers. You will need to contact your ISP to activate the device.



Image: The Motorola MG7315 is shown with logos indicating certification for use with Comcast Xfinity, Spectrum, and Cox internet services.

1. Have your ISP account information ready.
2. Contact your ISP's customer support or visit their activation portal. You will need to provide the MAC address (CM MAC) and Serial Number (S/N) located on the label on the bottom of your MG7315.
3. Follow your ISP's instructions to complete the activation process.

OPERATING INSTRUCTIONS

Connecting Devices via Wi-Fi

The MG7315 provides a single-band N450 Wi-Fi network (2.4 GHz).

1. Locate the Wi-Fi Network Name (SSID) and Password (Wi-Fi Key) on the label on the bottom of your MG7315.
2. On your wireless device (smartphone, tablet, laptop), search for available Wi-Fi networks.
3. Select the SSID matching your MG7315 and enter the Wi-Fi Key when prompted.
4. Alternatively, you can use the WPS (Wi-Fi Protected Setup) button on the rear of the MG7315 to connect WPS-compatible devices. Press the WPS button on the modem, then activate WPS on your device within two minutes.

Connecting Devices via Ethernet

For wired connections, use the Gigabit Ethernet ports.

1. Connect one end of an Ethernet cable to an Ethernet port (LAN1-LAN4) on the rear of the MG7315.
2. Connect the other end of the Ethernet cable to the Ethernet port on your computer, gaming console, or other network device.
3. The corresponding Ethernet indicator light on the front panel of the MG7315 will illuminate, indicating an active wired connection.

Accessing the Configuration Manager

To manage advanced settings, you can access the device's web-based configuration manager.

1. Open a web browser on a device connected to the MG7315 (either via Wi-Fi or Ethernet).
2. Enter the default IP address (usually found on the bottom label, often starting with 192.168.x.x or 10.0.0.1) into the browser's address bar and press Enter.
3. Enter the default username and password (also found on the bottom label, commonly 'admin' and 'motorola' or similar).
4. It is highly recommended to change the default login credentials for security purposes.

MAINTENANCE

Proper maintenance ensures optimal performance and longevity of your device.

- **Placement:** Place the MG7315 in a central location, away from obstructions, large metal objects, and other electronic devices that may cause interference. Ensure good ventilation around the unit.
- **Cleaning:** Keep the device clean and free of dust. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Restarting:** Occasionally restarting your modem router combo can resolve minor connectivity issues and improve performance. To restart, simply unplug the power adapter for 10-15 seconds, then plug it back in.
- **Firmware Updates:** Firmware updates are typically managed by your ISP. Do not attempt to manually update firmware unless instructed by your ISP or Motorola support.

TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Internet Connection:**

- Check all cable connections (coaxial, Ethernet, power) to ensure they are secure.
- Verify that the Power, Upstream/Downstream, and Internet Globe indicator lights are solid green. If not, contact your ISP to confirm service activation and status.
- Restart the MG7315 by unplugging it for 10-15 seconds and then plugging it back in.
- Ensure your ISP service is active and there are no local outages.

- **Slow Wi-Fi Speeds or Poor Signal:**

- Ensure the MG7315 is placed in a central location, free from interference.
- The MG7315 operates on a single 2.4 GHz band. Performance can be affected by congestion or distance.
- Reduce the number of active devices on the Wi-Fi network or use wired connections for high-bandwidth activities like gaming or 4K streaming.
- Consider if your internet plan supports the speeds you expect.

- **Cannot Access Configuration Manager:**

- Ensure your device is connected to the MG7315 network.
- Double-check the IP address entered in the browser.
- Verify the username and password. If you changed them and forgot, you may need to perform a factory reset (see below).

- **Factory Reset:**

- If you experience persistent issues or forget your custom Wi-Fi/login credentials, you can perform a factory reset.
- With the device powered on, use a paperclip or similar pointed object to press and hold the Reset button on the rear panel for about 10-15 seconds until the lights on the front panel flash.
- The device will restart with factory default settings, including the original Wi-Fi name and password found on the bottom label.

TECHNICAL SPECIFICATIONS

Detailed specifications for the Motorola MG7315.

8x4 Cable Modem plus N450 WiFi Gigabit Router



Modem/Router Combo

DOCSIS 3.0 8x4 **Cable Modem** for high-speed Internet access
Built-in N450 WiFi Gigabit **Router** with Power Boost®

Fast Internet for All Your Devices

8-channel bonding for maximum download speeds up to 343 Mbps. 4-channel bonding for upload speeds up to 123 Mbps.*

Full-band Capture Digital Tuning for even higher speeds and energy savings

Built-in Router provides high-speed shared Internet access to smartphones, HDTVs, computers, tablets, game stations, streaming media devices, and other Ethernet and WiFi devices.

N450 WiFi Router

Wireless WiFi Power Boost® to the FCC limit for high speeds and extended range

Four GigE Ethernet ports for high-speed wired connection to Ethernet-capable HDTVs, computers, game stations, and more

User-friendly guest network capability, Smart QoS, and more

Clean and Easy

Installs in minutes using easy Quick Start

Integrating the modem and router saves space, reduces wires and power cubes, and provides a single user interface.

Comes with its own security password to simplify setup

Flexible

Attractive modem/router product fits where you want it.

Certified for Internet services from Comcast Xfinity®, Charter Spectrum®, Cox®, and other Internet service providers

IPv4 and IPv6 network addressing for enhanced compatibility

Saves Money

Typically saves \$156 per year in cable modem rental fees. Actual savings depend on your service provider.

Motorola's superior quality and advanced lightning/surge protection protect your investment.

Free support by expert, friendly techs in the USA

Two year warranty from a company you trust

This cable modem/router does not have telephone jacks for support of voice phone calls.

* 343 Mbps is the maximum download speed for 8x4 DOCSIS 3.0 cable modems, and 123 Mbps is the maximum upload speed. 450 Mbps is the maximum WiFi speed of an N450 router. Actual download speeds depend on a number of factors and will be lower.

Model MG7315

Image: A graphic summarizing key features such as DOCSIS 3.0 8x4 cable modem, N450 WiFi Gigabit Router, fast internet for all devices, and user-friendly network management.

Feature	Detail
Brand	Motorola
Model Name	MG7315
Wireless Type	2.4 GHz Radio Frequency
Frequency Band Class	Single-Band
Connectivity Technology	Ethernet, Wi-Fi
Cable Modem Standard	DOCSIS 3.0 (8x4 channels)
Max Download Speed	Up to 343 Mbps
Max Upload Speed	Up to 123 Mbps
Ethernet Ports	4 Gigabit Ethernet (LAN)

Feature	Detail
Wireless Standard	N450 (802.11n)
Dimensions (LxWxH)	9.1 x 2.6 x 8.6 inches
Item Weight	1.35 pounds
Voltage	120 Volts (AC)
Compatible Devices	Smartphone, Tablet, PC, Gaming Consoles
ISP Compatibility	Certified for Comcast Xfinity, Spectrum, Cox (check with ISP for specific plans)
Special Feature	WPS

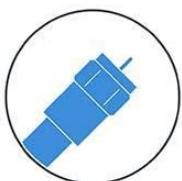
Choosing the Right Cable Modem for You



This product is certified by Comcast® for service speeds up to 200 Mbps. Cox® and Charter Spectrum® have certified this product for service speeds up to 150 Mbps. Other service providers vary. If you need higher speeds, we recommend the Motorola modem/router MG7540, MG7550, MG7700, or MT7711.



This modem is certified for use with Comcast Xfinity®, Cox®, Charter Spectrum®, WOW!®, and (Sparklight®) CableOne®. It is also compatible with RCN® and Mediacom®. For other service providers, please check with the service provider.



This cable modem works with Internet service provided by cable service providers. It is not compatible with DSL, Fiber Optic or Satellite services provided by AT&T®, Verizon®, CenturyLink®, and others.



This is a cable modem and router that includes N450 WiFi and 4 GigE Ethernet ports. If you want even better WiFi, please consider the MG7540 (16x4, AC1600 with DFS), MG7550 (16x4, AC1900 with Power Boost® and DFS), MG7700 (24x8, AC1600 with Power Boost®), or MT7711 (24x8, AC1900 with Power Boost® plus 2 Phone Ports for Xfinity Voice®).



This modem does not have a telephone jack and does not deliver telephone service.

Image: A guide explaining that the MG7315 is certified for speeds up to 200 Mbps with Comcast and 150 Mbps with Cox/Charter Spectrum. It also notes the single 2.4 GHz Wi-Fi and 4 Gigabit Ethernet ports, and clarifies that it does not support telephone service.

WARRANTY AND SUPPORT

Motorola Network products typically come with a manufacturer's warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official Motorola Network support website. For technical assistance, troubleshooting, or to inquire about warranty claims, please contact Motorola Network customer support. Contact information can usually be found on the Motorola Network website or in your product's quick start guide.

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