



DOCSIS 3.1 cable modem *plus* AC3200 WiFi router

Model MG8702



Eliminate monthly
cable modem
rental fees!

6,000 Mbps
maximum cable modem speed*
DOCSIS 3.1 plus 32x8 DOCSIS 3.0

3,200 Mbps
maximum WiFi speed*
AC3200 Gigabit Router with
WiFi Power Boost® and MU-MIMO
4 GigE Ethernet Ports
Fast Internet for all your devices

2 year warranty

Certified by Comcast Xfinity® and
other Internet Service Providers



MotoManage™ App
Easy home network control for better WiFi,
device & network security, smart parenting



Power Modem/Router Combo

Super Fast DOCSIS 3.1 plus 32x8 DOCSIS 3.0 **Cable Modem**
Built-in AC3200 WiFi Gigabit **Router** with Power Boost®

Fast Internet for All Your Devices

Future proof, including DOCSIS 3.1, 32x8 DOCSIS 3.0, and Gigabit Ethernet

Full-band Capture

Built-in Router provides high-speed shared Internet access to smartphones, SmartTV/Media Players, computers, tablets, game stations, and other Ethernet and WiFi devices.**

For both DOCSIS 3.1 and 3.0 services, the MG8702 supports Active Queue Management (AQM), which significantly reduces lag and delivers more responsive gaming, video conferencing, and more.

Extended Range AC3200 WiFi 5 GigE Router

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

MU-MIMO allows the router to communicate with multiple devices simultaneously, dramatically speeding up your network.

AnyBeam WiFi beamforming focuses the signal on wireless clients for enhanced performance.

Four GigE Ethernet ports for high-speed wired connection to Ethernet-capable devices

User-friendly Guest Network capability, Smart QoS, and more

Flexible

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

IPv4 and IPv6 network addressing for enhanced compatibility

USB 3.0 Port with DLNA provides shared network storage for files, plus playback of videos and music when a USB memory device is plugged in

Saves Money

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

Safeguards your investment with superior quality and advanced lightning/surge protection

Free support from expert, friendly techs in the USA

Two year warranty from a company you can trust.

Clean and Easy

Installs in minutes using easy Quick Start and/or MotoManage™ smartphone app

Integrates a high-speed modem and router to save space, reduce wires and power adapters, and provide a single user interface

Automatically optimizes your home network for a seamless and secure connected experience using the low-cost MotoManage™ app, powered by Minim®

For very high actual speeds, this cable modem is a great choice.

DOCSIS 3.1 is the fastest cable modem standard, supporting Internet speeds of many gigabits per second. Actual speeds depend on your cable modem service and the speed of your device's connection to this cable modem.

Even if you don't have DOCSIS 3.1 service now, you can benefit from the 32x8 DOCSIS 3.0 capability that's also built into this cable modem. This is the fastest DOCSIS 3.0 capability available.

Specifications

General

Cable Modem Service Interface

- F-type female 75 Ω (standard coaxial connector)

WiFi Technology

- 802.11ac/n/g/b/a, 4x4 MU-MIMO (Multi-User Multiple Input Multiple Output)

WiFi Speed and Performance

- Simultaneous Dual Band radios
- Up to 1000 Mbps* at 2.4 GHz
- Up to 2167 Mbps* at 5 GHz
- Anybeam at 2.4 GHz and 5 GHz for implicit beamforming with any WiFi compatible device
- Four (4) SSIDs (2 per radio)

Wireless Standards

- IEEE 802.11ac, n, g, b, and a

Antennas

- Four (4) internal dual-band antennas
- Power Boost® wireless amplifiers
- Transmit power:
2.4 GHz: Up to 30dBm
5 GHz: Up to 28dBm

USB Interface

- One (1) USB 3.0 host port for plugging in optional USB storage devices for Network Attached Storage (NAS).
- Supports DLNA Media Sharing for easy sharing of video and audio files by other devices on your network.

Ethernet Interface

- Four (4) 10/100/1000 Mbps Ethernet LAN ports, with Auto-MDI/MDIX

Router Mode

- Dynamic DNS
- DHCP Server and Client
- NAT
- Bridging
- Port Forwarding/DMZ support
- RIP v1, RIP v2, RIPng
- Support for up to 253 client devices

Networking and Security Features

- Stateful Packet Inspection (SPI)
- VPN passthrough: PPTP, IPsec tunneling
- Attack Protection
- IP/MAC/Port filtering
- Denial of Service Notification
- Supports Baseline Encryption (BPI) Management
- Wireless Functions: WMM/WME, Guest Network
- Wireless Security: WPA-PSK/WPA2-PSK, WPA/WPA2, TKIP/AES, WPS, 802.1x Authentication
- Password protected system management
- Cable modem diagnostic log

Operating Parameters

LEDs

- Front Panel:
Power, Downstream, Upstream, Online, LAN, 2.4 GHz WiFi, 5 GHz WiFi, WPS, USB
- Rear Panel:
Each Ethernet port has two LEDs indicating data flow and LAN connection speed. Green indicates 1 Gbps; amber indicates 10 or 100 Mbps. Blinking indicates data flow.

Dimensions

- 9.5" tall x 8.8" deep x 2.8" wide
(241 mm x 225 mm x 71 mm)

Weight

- 30.4 ounces (862 grams)

Power Adapter

- DoE-compliant Level VI energy-saving, UL-listed power adapter with 12 Volt DC, 3.5 Amp output and 100-240VAC universal input
- NEMA 1-15 (North American style) 2-prong plug is provided in the US.

Operating Temperature

- 32° to 104° F (0° to 40° C)

Certifications

- FCC 15B, 15C and 15E, FCC MPE, Bureau Veritas 60950-1 ITE safety, CableLabs®, cable service providers

Surge Protection

- Industrial-level surge & lightning protection

Warranty

- Two years

System Requirements

- The cable modem must be connected to a cable modem service that uses any of the DOCSIS standards – 3.1, 3.0, 2.0, 1.1

Package Contents

- DOCSIS 3.1/3.0 Cable Modem with AC3200 WiFi 5 Router
(does not include phone jacks or phone capability)
- Power Adapter (UL listed)
- Ethernet Cable (Cat 5e)
- Velcro® Cable Tie
- Coax Connection Tool
- MotoManage® App
powered by Minim®



Basic Service included plus one month free trial of Premium Service

Specifications

Operating Parameters

DOCSIS Standards

- DOCSIS 3.1, 3.0, 2.0, 1.1

Downstream

- Data Rate:
Up to 6,000 Mbps*
- Bonded Channels:
Up to 2 OFDM (DOCSIS 3.1) or 32 SCQAM (DOCSIS 3.0)
- Frequency Range:
108 to 1002 MHz
- Modulation:
64, 256, 1024, 2048, 4096 QAM
- Operating Level Range:
-15 to +15 dBmV

Upstream

- Data Rate:
Up to 800 Mbps*
- Bonded Channels:
One up to 80MHz OFDMA (DOCSIS 3.1) or up to 8 SCQAM (DOCSIS 3.0)
- Frequency Range:
5 to 42 MHz or 5 to 85 MHz switchable
- Modulation:
QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM, 1024QAM, 2048QAM, 4096QAM
- Operating Level Range:
+51 dBmV (64 QAM, single channel)
+57 dBmV (64QAM, 4-8 channels)
+65 dBmV (16 QAM, single channel)
+65 dBmV (OFDMA)

Network Protocols

- IPv4, IPv6, TCP, UDP, ARP, ICMP, DHCP, FTP, TFTP, SNMP, HTTP, HTTPS

Application Protocol

- SNMP v1/v2/v3

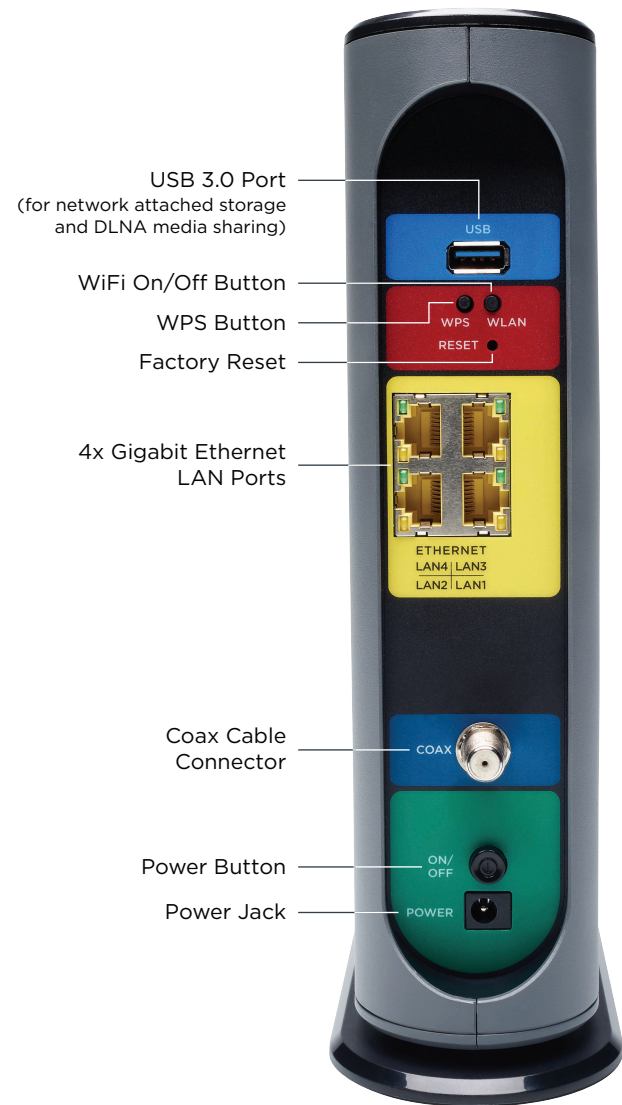
DHCP Client

- Automatically retrieves IP and DNS server address from DHCP server through WAN connection

ToD (RF868)

- ToD support for local and MSO time synchronization management
- Web-based management interface utility

Cable Modem/Router Back Panel



* The actual speed of a connected device depends on the speed of your Internet service and the speed of the WiFi or Ethernet link to that device. Comcast has tested this modem for actual Internet speeds up to 1000 Mbps.

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

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