



## 24x8 cable modem plus AC1900 router

Model MG7700



### hellofast

combines 1,000 Mbps cable modem and AC1900 WiFi Gigabit router

Links all your WiFi and Ethernet devices to the Internet

Certified to work with XFINITY® from Comcast and other cable service providers

## Product Data Sheet

### Important Features

#### Fast Internet

24x8 DOCSIS 3.0 Cable Modem. 24-channel bonding for download speeds up to 1,000 Mbps. 8-channel bonding for upload speeds up to 246 Mbps.\*

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

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

#### AC1900 WiFi Gigabit Router with Power Boost

Clean and easy. This modem/router combo saves space, reduces wires and power cubes, and provides a single user interface.

Four Gigabit Ethernet ports plus WiFi wireless for high-speed Internet access

AC1900 dual band wireless provides high speed, extended range, and compatibility with all your WiFi devices

Wireless Power Boost to the FCC limit for extended speed and range

AnyBeam beamforming focuses the WiFi signal on WiFi devices for better wireless performance.

#### Easy

Installs in minutes using easy Quick Start

Quick setup. Comes with its own unique security password to simplify setup.

Free support by expert, friendly techs in the USA

#### Flexible

Attractive modem/router fits where you want it. (2 1/2" wide by 8 1/2" deep by 9" tall)

DOCSIS 3.0 cable modem works with all US cable services.

IPv6 and IPv4 network addressing for excellent compatibility

#### Saves money

Save money! Own, don't rent your modem.

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

Two year warranty

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## Specifications

### General

#### Cable Modem Service Interface

- F-type female 75  $\Omega$  (standard coaxial connector)

#### Wi-Fi Technology

- 802.11ac/n/g/b/a, 3x3 MIMO (Multiple Input Multiple Output)

#### Wi-Fi Speed and Performance

- Simultaneous Dual Band radios
- Up to 600 Mbps\*\* at 2.4 GHz
- Up to 1300 Mbps\*\* at 5 GHz
- Anybeam at 2.4 GHz and 5 GHz for implicit beamforming with any Wi-Fi compatible device
- Six (6) SSIDs (3 per radio)

#### Wireless Standards

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

#### Antennas

- Three (3) internal dual antennas
- Power Boost wireless amplifiers
- Transmit power:  
2.4 GHz: Up to 29.55dBm  
5 GHz: Up to 27.54dBm

#### Ethernet Interface

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

#### Router Mode

- Dynamic DNS
- DHCP Server and Client
- NAT
- Bridging
- Port Forwarding/DMZ support
- RIP V1 and V2
- Support for up to 253 client devices

#### Networking and Security Features

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

#### LEDs

- Front Panel:  
Power, Downstream link, Upstream link, Connection status, 2.4 GHz Wireless link, 5 GHz Wireless link, WPS
- 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

- 2 ½" wide x 8 ½" deep x 9" tall  
(64 mm x 203 mm x 229 mm)

#### Weight

- 24.7 ounces (701 grams)

#### Power Adapter

- DoE-compliant Level VI energy-saving, UL-listed power adapter with 12 Volt DC, 2.5 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

- Ruggedized cable and power 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 – 3.0, 2.0, 1.1.
- Directly connected devices, such as computers, HDTVs, and game stations, must have an Ethernet port.
- Devices connected wirelessly must have wireless ac, n, a, g, or b capability.

#### Package Contents

- Cable Modem with built-in Wi-Fi Router
- Power Cube (UL listed)
- Ethernet Cable (Cat 5e)
- Velcro® Cable Tie
- Coax Connection Tool
- Quick Start Flyer

## Specifications

### Operating Parameters

#### DOCSIS Standards

- DOCSIS 3.0, 2.0, 1.1

#### Downstream

- Data Rate:  
Up to 1029 Mbps\*
- Bonded Channels:  
Up to 24 SCQAM
- Frequency Range:  
108 to 1002 MHz
- Modulation:  
64 or 256 QAM
- Operating Level Range:  
-15 to +15 dBmV

#### Upstream

- Data Rate:  
Up to 246 Mbps\*
- Bonded Channels:  
Up to 8 SCQAM
- Frequency Range:  
5 to 42 MHz
- Modulation:  
QPSK, 8QAM, 16QAM, 32QAM, 64QAM, 128QAM, 256QAM
- Operating Level Range:  
+61 dBmV (64 QAM, single channel)  
+54 dBmV (64QAM, 4-8 channels)  
+61 dBmV (16 QAM, single channel)

#### Network Protocols

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

#### Application Protocol

- SNMP v1/v2/v3

#### DHCP Client

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

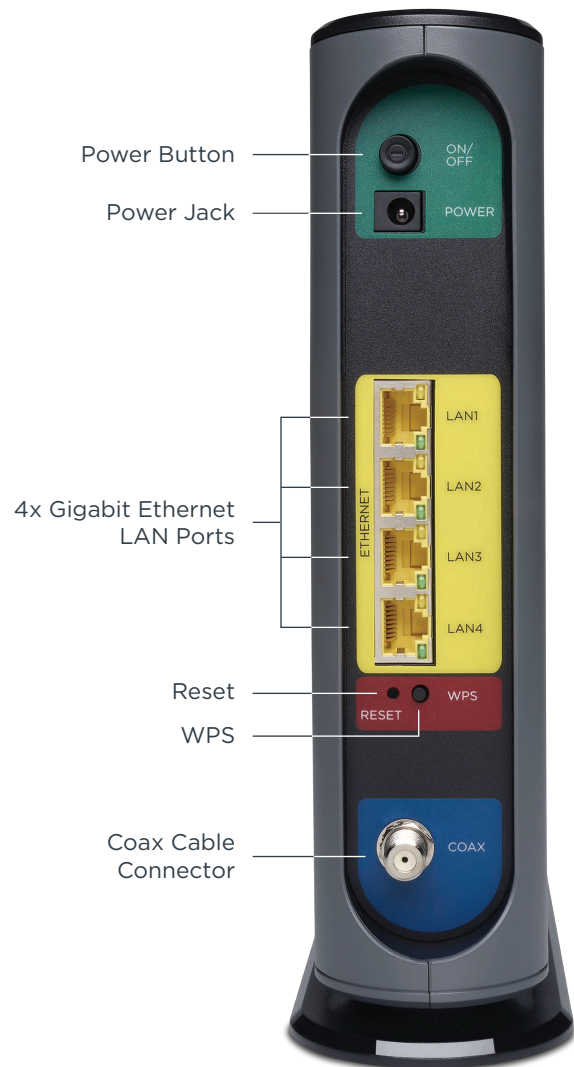
#### ToD (RF868)

- ToD support for local and MSO time synchronization

#### Management

- Web-based management interface utility

### Cable Modem/Router Back Diagram



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

\* 1029/246 Mbps is the maximum nominal download/upload speed for 24x8 DOCSIS 3.0 cable modems. Actual speeds depend on a number of factors including the speed of your cable modem service, and will typically be slower. Speeds cannot exceed the speed of the Gigabit Ethernet port.

\*\* Speeds shown are maximum wireless speeds derived from IEEE Standard 802.11 specifications. Actual speeds will vary.

MTRLC LLC  
PO BOX 121147 Boston, MA 02112-1147  
E-mail: sales@motorolanetwork.com  
Phone: 1-800-753-0772



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