

Model MB7621

24x8 Cable Modem



24 downstream channels with Full-band Capture Digital Tuning

Save money! Eliminate monthly modem rental fees.

Important Features

Fast Internet

24x8 DOCSIS 3.0. 24 bonded downstream channels, up to 24 times the speed of DOCSIS 2.0, and 8 bonded upstream channels*

Full-band Capture Digital Tuning for high speeds and energy savings

Gigabit Ethernet port for a high-speed plug-in connection to a router, computer, or other Internet-capable device

Easy

Installs in minutes using easy Quick Start

Connects fast with just 3 connections – power, coax cable, and $\ensuremath{\mathsf{E}}\xspace{\mathsf{thermat}}$

Fast activation for XFINITY from Comcast and other popular service providers

Flexible

Attractive modem fits where you want it. (2 1/4" wide by 7 1/4" deep by 7 7/8" tall)

DOCSIS 3.0 cable modem compatible with all US cable services

IPv6 and IPv4 network addressing for enhanced compatibility



Saves money

Typically saves \$120 per year in cable modem rental fees. (See www.motorolanetwork.com/services to check savings for your service provider.)

Motorola's superior quality and lightning protection protect your investment for years to come.

Two year warranty

Works great with routers and more

Plugs easily into any router for shared high-speed Internet access by all your WiFi or Ethernet-capable devices.

Ethernet port can instead provide high-speed connection to a computer, HDTV, game station, or other Ethernet device.

Note: This cable modem does not have a built-in wireless router and does not have telephone jacks for support of voice phone calls.



Specifications

General

Cable Modem Service Interface

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

Ethernet Interface

• 10/100/1000 Gigabit Ethernet LAN port, with Auto-MDI/MDIX

LEDs

- Front Panel:
- Power, Downstream, Upstream, Online, LAN

Dimensions

• 2 ¼" wide x 7 ¼" deep x 7 ½" tall (57 mm x 184 mm x 200 mm)

Weight

• 16.3 ounces

Power Adapter

- DoE-compliant Level VI energy-saving, UL-listed power adapter with 12 Volt DC, 1.5 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, Bureau Veritas 60950-1 ITE safety, CableLabs^{*}, cable service providers

Surge Protection

• Ruggedized cable and power lightning protection

Warranty

• Two years

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:
 +65 dBmV (64 QAM, single channel)
 +57 dBmV (64QAM, 4-8 channels)
 +65 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

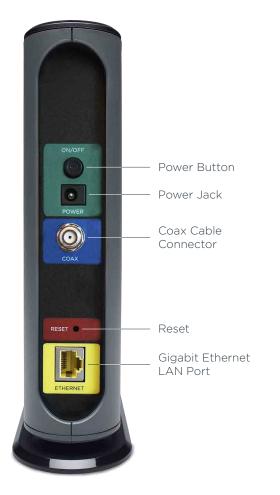
• Automatically retrieves IP and DNS server address from DHCP server through WAN connection

Management

• Web-based management interface utility



Cable Modem Back Diagram



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

Package Contents

- Cable Modem
- Power Cube (UL listed)
- Ethernet Cable (Cat 5e)
- Velcro® Cable Tie
- Coax Connection Tool
- Quick Start Flyer

* 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.

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24x8 960 Mbps Cable Modem Model MB7621