

## MB7621 24x8 DOCSIS 3.0 Cable Modem



motorola



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 Ethernet

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](http://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.

## MB7621 24x8 DOCSIS 3.0 Cable Modem

### Specifications

#### General

##### Cable Modem Service Interface

- F-type female 75  $\Omega$  (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 ⅞" 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

### 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

#### Operating Parameters

##### DOCSIS Standards

- DOCSIS 3.0, 2.0, 1.1

##### Downstream

- Data Rate:  
Up to 1029 Mbps\*
- Bonded Channel :  
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 Channel :  
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

- Pv4, 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