



DOCSIS 3.1 cable modem

Model MB8611



ultrafast

All Multi-Gigabit Tiers

the fastest cable modem Internet speeds!
DOCSIS 3.1 plus 32x8 DOCSIS 3.0

2.5 Gbps Ethernet LAN Port

2 year warranty

Certified by Comcast Xfinity® and other Internet Service Providers. Supports their fastest available cable modem services.

xfinity



Eliminate
monthly cable
modem rental
fees!

Product Data Sheet

Important features

Super Fast DOCSIS 3.1 plus 32x8 DOCSIS 3.0 for very fast Internet speeds

2.5 Gbps Ethernet LAN port speed to work with even the fastest routers and personal computers. Helps to prevent throttling of Gigabit cable Internet speeds. Far superior to LAN port bonding.

Full-band Capture Digital Tuning enhances speed and saves energy

Works with a WiFi router, Windows or Mac computer, SmartTV/Media Player, game station, or other device with an Ethernet port. Internet access for more than one device requires a router.**

Great for Netflix® and other video streaming, gaming, Facebook®, web browsing, emails, and more.

Works with Xfinity® from Comcast and other cable modem services

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

Vertical case saves space and enhances cooling

High resistance to lightning and to power surges

Future proof, including DOCSIS 3.1, DOCSIS 3.0, 2.5 Gigabit Ethernet, and more

Fast and easy setup, with high-quality documentation

Supported by expert, friendly techs in the USA

2 year warranty from a company you trust

What you should know about DOCSIS 3.1

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 speed, this modem's 2.5 Gigabits per second Ethernet port speed, and the speed of the devices sending data through 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.

For both DOCSIS 3.1 and 3.0 services, the MB8611 supports Active Queue Management (AQM), which significantly reduces lag and delivers more responsive gaming, video conferencing, and more.

For very high ACTUAL SPEEDS, this cable modem is a great choice.

For even more details about DOCSIS 3.1, please see www.motorolanetwork.com/31

What you should know about this device's 2.5 Gbps Ethernet LAN port

This very fast Ethernet LAN port helps you get maximum performance from high-performance routers and computers that support this high speed. If you use a cable Internet speed above 1 Gbps, a LAN port of only 1 Gbps can reduce actual speeds. Some cable modems aggregate two Ethernet ports to address this problem, but a single 2.5 Gbps LAN port is far superior to LAN port aggregation. This cable modem also supports 1 Gbps and 100 Mbps LAN supports, so it's fast and flexible.

Specifications

General

Cable Modem Service Interface

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

Ethernet Interface

- One 10/100/1000/2500 Ethernet LAN port

LEDs

- Front Panel:
Power, Downstream, Upstream, Online, LAN
- Rear Panel:
The Ethernet port has two LEDs indicating data flow and LAN connection speed.
 - Green indicates 2.5 Gbps
 - Amber indicates 100 Mbps or 1 Gbps
 - Blinking indicates data flow

Dimensions

- 7 $\frac{7}{8}$ " tall x 7 $\frac{1}{4}$ " deep x 2 $\frac{1}{4}$ " wide
(200 mm x 184 mm x 57 mm)

Weight

18.4 ounces (523 grams)

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

- Industrial-level surge & lightning protection

Warranty

- Two years

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 32 SCQAM (DOCSIS 3.0) or 2 OFDM (DOCSIS 3.1)
- Frequency Range:
108 to 1002 MHz
- Operating Level Range:
-15 to +15 dBmV

Upstream

- Data Rate:
Up to 800 Mbps*
- Bonded Channels:
Up to 8 SCQAM (DOCSIS 3.0) or 2 OFDMA (DOCSIS 3.1)
- Frequency Range:
5 to 42 MHz or 5 to 85 MHz switchable
- Operating Level Range:
+65 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

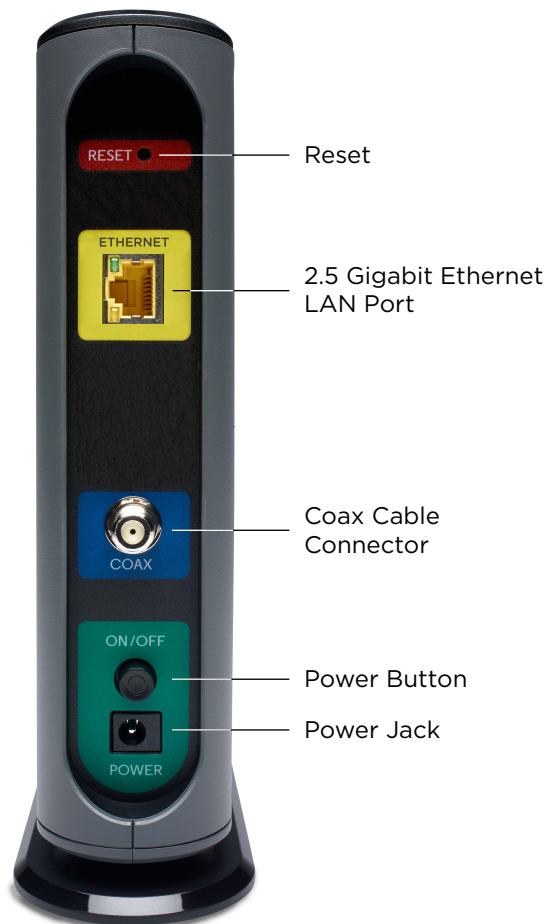
DHCP Client

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

Management

- Web-based management interface utility

Cable Modem Back Panel



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
- The supplied power cube plugs into the most common USA power outlet.

Package Contents

- DOCSIS 3.1 / 3.0 Cable Modem (no built-in router or phone jacks)
- Power Adapter (UL listed)
- Ethernet Cable (Cat 6)
- Velcro® Cable Tie
- Coax Connection Tool
- Quick Start Flyer

* Data throughput will be reduced by network overhead. Delivered data speeds are also dependent upon the configuration and capacity of the data-over-cable service on which the MB8611 is used.

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

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