TONER cable equipment, inc.

MB8600 32x8 6,000 Mbps DOCSIS 3.1 Cable Modem

motorola

Important features

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

Full-band Capture Digital Tuning enhances speed and saves energy

Works with a WiFi router, Windows or Mac computer, HDTV, 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, Comcast® Business, Cox®, and other cable modem services

Vertical case saves space and enhances cooling

High resistance to lightning and to power surges

Future proof, including DOCSIS 3.1, DOCSIS 3.0, Gigabit Ethernet, port bonding, 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

Reset

1x open and 3x masked Gigabit Ethernet (GigE) LAN Ports†

Coax Cable Connector

Power Button

Power Jack

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, this modem's 1-Gigabit Ethernet port speed, and the speed of the Ethernet 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.

For both DOCSIS 3.1 and 3.0 services, the MB8600 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

MB8600 32x8 6,000 Mbps DOCSIS 3.1 Cable Modem

Specifications

General

Cable Modem Service Interface
- F-type female 75 Ω (standard coaxial connector)

Ethernet Interface
- One open and 3 masked 10/100/1000 Ethernet LAN ports†

LEDs
- Front Panel:
  Power, Downstream, Upstream, Online, LAN
- 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
- 7 ⅞″ tall x 7 ¼″ deep x 2 ¼″ 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, 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 and 15C, FCC MPE, 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 3.1, 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 85 MHz
- Configurable Diplex Filter:
  5-42 and 5-85 MHz
- 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

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

©Toner Cable Equipment, Inc.