



Wireless Cable Modem Gateway SBG1000

A networking powerhouse.

Motorola's Wireless Cable Modem Gateway has got high speed Internet access too.

The SBG1000 incorporates a SURFboard® Cable Modem, an 802.11b wireless access point, a four-port Ethernet router, a print server and advanced firewall security. That means everyone in your home or small office can securely network to share a single high speed Internet connection, files, online and console gaming, pictures, peripherals and more.

BENEFITS:

- Integrated SURFboard Cable Modem
 - > Always on, always connected and always ready
 - > Everyone on your network can share a single broadband connection
 - > Downloads data up to 100 times faster than traditional 28.8k analog phone modems*
- 802.11b wireless access point
 - > Supports data rates of up to 11 Mbps**
 - > Wireless users can roam up to 500 feet
 - > Eliminates the hassles of running wires to establish network connections
- Four-port Ethernet router with switch
 - > Four 10/100Base-T ports
 - > Built-in switch enables gaming and multimedia transfers
 - > Connects at data rates up to 100 Mbps**
 - > All ports are dual-purpose switch/uplink ports
 - > Half and full duplex
- Advanced firewall security
 - > Denial of Service (DoS) attack prevention
 - > Stateful Packet Inspection (SPI)
 - > Intrusion detection
 - > Demilitarized Zone (DMZ) — helps protect your network while allowing unrestricted online gaming
 - > VPN pass-through capabilities provide privacy to telecommuters and small businesses:
 - IPSec, PPTP & L2TP pass-through
 - Network Address Translation (NAT)
 - DHCP server and client

- Print server
 - > Supports Windows®/Mac®/Linux®

FEATURES:

- DOCSIS® 1.0 CableLabs® Certified
- IP and MAC address filtering
- Two diversity antennas to enhance wireless connectivity
- Easy-to-read LED display
- 24 x 7 technical support available via the Web or by phone

WHAT'S INCLUDED:

- SBG1000 Wireless Cable Modem Gateway
- Power cord
- USB and Ethernet cables
- Quick Start Guide
- Print server software
- CD-ROM containing installation software and User Guide

SYSTEM REQUIREMENTS:

- Minimum 486/86 (Pentium Processor preferred) or Macintosh®-compatible CPU (Power PC)
- Operating systems such as:
 - Windows® 98/2000/NT/Me/XP; Macintosh OS 8.0 or higher; and UNIX®
- 10/100Base-T Ethernet or USB connection
- Check with your local cable provider for DOCSIS high speed data service

CONNECTEDMOTO

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TECHNICAL SPECIFICATIONS

WIRELESS

STANDARDS COMPLIANCE

IEEE 802.11b; Direct Sequence Spread Spectrum (DSSS)

RF FREQUENCY RANGE

2.4 to 2.4835 GHz,
2.4 to 2.497 GHz for Japan

DATA RATE

Auto, 11, 5.5, 2, and 1 Mbps

MODULATION

11 and 5.5 Mbps – CCK,
2 Mbps – DQPSK,
1 Mbps – DBPSK

NUMBER OF CHANNELS

US – 11 Europe – 13
Spain – 2 France – 4
Japan – 14

TRANSMIT POWER

17.5 dBm (EIRP)

RECEIVE SENSITIVITY

-83 dBm at 11 Mbps

ROUTER

ETHERNET STANDARDS COMPLIANCE

IEEE 802.3; IEEE 802.3u

PROTOCOLS SUPPORTED

RIP, RIPv2

NUMBER OF PORTS

5

NUMBER OF UPLINK PORTS

5

ELECTRICAL

INPUT VOLTAGE RANGE

100 to 240 VAC, 50 to 60 Hz

POWER CONSUMPTION

18 Watts

PRINT SERVER

Windows®, Mac®, Linux®

GENERAL

CABLE INTERFACE

F-connector, female, 75 Ω

CPE NETWORK INTERFACE

USB, Ethernet 10/100Base-T (auto sensing)

DATA PROTOCOL

TCP/IP

DIMENSIONS

11.4" (H) x 6.3" (W) x 2.8" (L)

WEIGHT

0.8 lbs (unit only)

MODEM DOWNSTREAM

MODULATION

64 or 256 QAM

MAXIMUM DATA RATE**

38 Mbps

BANDWIDTH

6 MHz

SYMBOL RATE

64 QAM 5.069 Msym/s
256 QAM 5.361 Msym/s

OPERATING LEVEL RANGE

-15 to +15 dBmV

INPUT IMPEDANCE

75 Ω (nominal)

FREQUENCY RANGE

88 to 860 MHz

MODEM UPSTREAM

MODULATION

16 QAM or QPSK

MAXIMUM DATA RATE**

10 Mbps

BANDWIDTH

200 kHz, 400 kHz, 800 kHz,
1.6 MHz, 3.2 MHz

SYMBOL RATES

160, 320, 640, 1280,
2560 ksym/s

OPERATING LEVEL RANGE

+8 to +55 dBmV (16 QAM)
+8 to +58 dBmV (QPSK)

OUTPUT IMPEDANCE

75 Ω (nominal)

FREQUENCY RANGE

5 to 42 MHz (edge to edge)

ENVIRONMENTAL

OPERATING TEMPERATURE

32° F to 104° F (0° C to 40° C)

STORAGE TEMPERATURE

-22° F to 176° F (-30° C to 80° C)

OPERATING HUMIDITY

5 to 95% (non-condensing)

MECHANICAL ANTENNAS

Two external, removable, articulating antennas.

LED INDICATORS

Modem – Receive, Send, Online, Internet

Router (Each Port 1 – 5) –

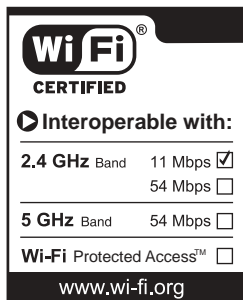
Activity, 10/100, Half/Full, Link

Access Point – Wireless

Other – USB, Power, Model Number

INTERFACES

(1) AC Power, (1) F-type,
(5) RJ-45, (2) RJ-11, (1) DB-25



* When comparing download speeds with a traditional 28.8k analog modem. Actual speeds will vary, and are often less than the maximum possible. Upload and download speeds are affected by several factors including, but not limited to: network traffic and services offered by your cable operator or broadband service provider, computer equipment, type of server, number of connections to server, and availability of Internet router(s).

** A Word About Data Rates: Data rate is the speed at which individual bits of data flow through a channel. It is not the same speed at which entire files are uploaded or downloaded. These speeds will vary, and are often less than the maximum data rate. Upload and download speeds are affected by several factors including, but not limited to: the capacity of and the services offered by your cable operator or broadband service provider, channel capacity, network traffic, computer equipment, type of server, number of connections to server, and availability of Internet router(s).

To view our full line of Broadband Networking Products,
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