



## SURFboard® Cable Modem SB5120

The wait is over.

Get going now with the SURFboard® Cable Modem.

By utilizing the enormous capacity of the CableTV network, this SURFboard Cable Modem can have you enjoying Internet access — surfing, downloading, working, shopping and gaming — at speeds up to 100 times faster than with traditional 28.8k analog phone modems\*. It's always on. It's always connected. Say goodbye to busy signals, and to needless waiting.

### BENEFITS:

- Always on, always connected and always ready to go
- Capable of downloading up to 100 times faster than traditional 28.8k analog phone modems\*
- Enhanced with TurboDOX™ Bandwidth Optimization Software: can further boost download speeds by up to 20 times\*
- Supports upstream data rates up to 30 Mbps\*
- Enables access to real-time online games
- Downloads mega-files in seconds
- Stand-by switch disconnects the modem from the outside world when not in use, guarding your PC or network from intrusion\*\*
- No telephone line needed
- USB or Ethernet connectivity simplifies installation
- New, stylish design saves valuable desk space
- 24/7 technical support available over the web or via toll-free telephone number

### FEATURES:

- DOCSIS® 1.1 & 2.0 CableLabs® Certified
- Easy-to-read front panel lights to indicate status
- User-friendly online diagnostics page
- Supports up to 32 users
- Bridged Ethernet and USB connections, allowing communication between a USB device and an Ethernet LAN
- Supports standard internet software
- Specially designed architecture allows for future upgrades

### WHAT'S INCLUDED:

- SURFboard SB5120 Cable Modem
- USB and Ethernet cables
- Power adapter
- Installation CD-ROM with USB drivers
- Quick Start Guide
- Two-year limited warranty

### SYSTEM REQUIREMENTS:

- Minimum 486/66 (Pentium Processor preferred) or Macintosh-compatible CPU (Power PC)
- CD-ROM drive
- 10/100Base-T Ethernet or USB connection
- Ethernet connection compatible with Windows® 95/98SE/2000/NT/Me/XP; Macintosh® OS 8 or higher, UNIX®; and Linux®
- USB connection compatible with Windows® 98SE/2000/NT/Me/XP
- Check with your local cable provider for DOCSIS® high speed data service

# CONNECTEDMOTO

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## SURFboard® Cable Modem SB5120



### TECHNICAL SPECIFICATIONS

#### GENERAL

##### CABLE INTERFACE

F-connector, female, 75 Ω

##### LOCAL NETWORK INTERFACE

USB, Ethernet 10/100Base-T

##### DATA PROTOCOL

TCP/IP

##### PHYSICAL DIMENSIONS

6.2" (H) x 2.3" (W) x 6.0" (L)

##### POWER

9 Watts (nominal)

##### INPUT POWER

North America:

105 – 125 VAC, 60 Hz

International:

100 – 240 VAC, 50 – 60 Hz

#### 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 – 860 MHz

#### UPSTREAM

##### MODULATION

8\*\*\*, 16, 32\*\*\*, 64\*\*\*,  
128\*\*\*\* QAM or QPSK

##### MAXIMUM DATA RATE\*\*

30 Mbps

##### BANDWIDTH

200 kHz, 400 kHz, 800 kHz,  
1.6 MHz, 3.2 MHz, 6.4\*\*\* MHz

##### SYMBOL RATE

160, 320, 640, 1280, 2560 and  
5120\*\*\* ksym/s

##### OPERATING LEVEL RANGE

A-TDMA:

+8 to +54 dBmV

(32QAM, 64QAM)

+8 to +55 dBmV

(8QAM, 16QAM)

+8 to +58 dBmV (QPSK)

S-CDMA:

+8 to +53 dBmV

(all modulations)

##### OUTPUT IMPEDANCE

75 Ω (nominal)

##### FREQUENCY RANGE

5 – 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)

##### HUMIDITY

0 to 95% R.H.

(non-condensing)

\* Actual speeds will vary, and are often less than the maximum possible. Actual 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, network traffic, computer equipment, type of server, number of connections to server, and availability of Internet router(s).

\*\* Stand-by switch disconnects the USB and Ethernet connection to the computer without disconnecting the cable modem from the RF network.

\*\*\* With A-TDMA or S-CDMA enabled CMTS.

\*\*\*\* With S-CDMA enabled CMTS.

To view our full line of cable modems, gateways and networking products, visit our Web site at [www.motorola.com/broadband/consumers](http://www.motorola.com/broadband/consumers)

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