

Now with USB network connectivity, Motorola's SURFboard DOCSIS Cable Modem is even easier to install.

Riding the Internet wave just gets better and better. Introducing Motorola's new SURFboard® SB4100 cable modem. With software upgrades accessible over the network and USB network connectivity, users no longer need to purchase additional software or open their PC to install a standard Ethernet card. The SB4100 offers both Ethernet and USB interface connectivity to help ensure compatibility with almost any PC or Macintosh network-ready computer system. What's more, a front panel stand-by switch has been added for additional end-user security.

It disconnects the USB and Ethernet connection to the CPE without disconnecting the cable modem from the RF network, providing security, flexibility and performance.

The SB4100 includes all of the enhanced features of previous SURFboard cable modems, including: incredible speed, high-performance processors, advanced RF design, operator-friendly diagnostics, and top-notch field reliability.



- DOCSIS 1.0 and 1.1
CableLabs certified
- Excite@Home Level 2 approved
- USB network connectivity
simplifies installation
- Stand-by switch enhances security
- Capable of downloading at speeds
up to 100 times faster than a 28.8k
analog phone modem*
- No telephone lines needed—
always on, always connected
- Compatible with Windows
95/98/2000/NT/Mac/UNIX/XP
Millennium
- Supports up to 32 users—ideal for
home and small businesses
- Attractive vertical design saves
desk space



FEATURES

- DOCSIS 1.0 and 1.1 compliant
- USB for Windows 98/2000/XP
- Supports up to 32 users (1 via USB and up to 31 via Ethernet)
- Ethernet and USB connections are bridged allowing LAN traffic between USB device and Ethernet LAN
- 10/100BaseT Ethernet (auto sensing)
- Remote management via SNMP
- Software upgradeable over the network
- Internal power supply
- Front panel stand-by switch enhances network security to end-user
- Platform independent modem with HTML-based user interface for status troubleshooting
- Front panel LEDs for easy troubleshooting
- User guide translates in multiple languages
- Global safety approval & certificates:
 - CB scheme (EN60950/IEC950)
 - CE-Evaluation test report (EN55022/EN55024)
 - UL approved
 - Microsoft WHQL approved

SPECIFICATIONS

DOWNSTREAM

Demodulation	64 or 256 QAM
Maximum Data Rate	38 Mbps
Bandwidth	6 MHz
Symbol Rate	64 QAM 5.069 Msym/s
Symbol Rate	256 QAM 5.361 Msym/s
Operating Level Range	-15 to +15 dBmV
Input Impedance	75 Ω (nominal)
Frequency Range	88 to 860 MHz

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, and 2560 ksym/s
Operating Level Range	+8 to +55 dBmV (16QAM) +8 to +58 dBmV (QPSK)
Output Impedance	75 Ω (nominal)
Frequency Range	5 to 42 MHz (edge to edge)

GENERAL

Cable Interface	F-Connector, female, 75 Ω
CPE Network Interface	USB, Ethernet 10/100BaseT (auto sensing)
Data Protocol	TCP/IP
Dimensions	7.2" H x 2.0" W x 7.8" L
Power	9 Watts (nominal)
Input Power	100-240 VAC, 50-60 Hz

ENVIRONMENTAL

Operating Temperature	0° to 40° C
Storage Temperature	-30° to 80° C
Operating Humidity	0 to 95% R.H. non-condensing

CONCLUSION

The SURFboard SB4100 cable modem simplifies installation with its USB interface and helps provide enhanced end-user security with its front panel stand-by switch. But that's not all. It is also DOCSIS 1.1 certified, ensuring advanced Quality of Service (QoS). Plus, its 10/100BaseT auto sensing Ethernet lines allows for seamless communications. Excellent performance, seamless functionality, exceptional value... that's innovative technology.



*When compared to traditional 28.8k analog modems. 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).

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Specifications subject to change.

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