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MOTOROLA

SURFboard SB5100
Cable Modem

Take advantage of DOCSIS 2.0 technology today with Motorola's next-generation SURFboard SB5100 Cable Modem

Motorola's next generation SURFboard SB5100 Cable Modem incorporates the latest DOCSIS 2.0 Advanced Time Division Multiple Access (A-TDMA) and Synchronous Code Division Multiple Access (S-CDMA) technologies to provide up to three times greater upstream capacity than DOCSIS 1.0/1.1 Systems.

HIGHLIGHTS INCLUDE:

· DOCSIS 1.1 and 2.0 Certified
· Integrated A-TDMA and S-CDMA technology - capable of providing up to 30 Mbps upstream data rate
· WHQL certified USB drivers for Windows® 2000/Me/XP
· New Stylish industrial design saves valuable desk space
· Front panel status LEDs and built-in HTML-based diagnostics for quick and easy troubleshooting
· USB and Ethernet connectivity simplifies installation
· Compatible with Windows® 95/98/2000/Me/NT/XP, Mac, Linux, and UNIX
· Supports up to 32 users (1 via USB and 31 via Ethernet or 32 users on Ethernet)
· Capable of downloading at speeds up to 100 times faster than 28.8k analog phone modem*
· No telephone lines needed - always on, always connected

SPECIFICATIONS

Downstream
Modulation:	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
Frequency Range:	88 to 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 Rates:	160, 320, 640, 1280, 2560 and 5120*** ksym/s
Operating Level Range:	A-TDMA; +8 to +54 dBmV (32 QAM, 64 QAM) +8 to +55 dBmV (8 QAM, 16 QAM) +8 to +58 dBmV (QPSK) S-CDMA +8 to +53 dBmV (all modulations)
Frequency Range:	5 to 42 MHz (edge to edge)

General
Cable Interface:	F-connector, female, 75 Ω
CPE Network Interface:	USB, Ethernet 10/100 Base-T
Data Protocol:	TCP/IP
Dimensions:	6.2"H 2.3"W 6.0"L
Power:	9 Watts, 105-125 VAC, 60 Hz

*   Actual speeds will vary
**   Actual speeds will vary. Speeds of 30 Mbps are only attainable with A-TDMA or S-CDMA tecnhnology.
*** With A-TDMA or S-CDMA enabled CMTS.