



Motorola SURFboard[®] DOCSIS[®] 3.0 Cable Modem (SB6120)



The Motorola SURFboard Cable Modem (SB6120) is DOCSIS 3.0 compliant. It enables a cable operator to provide their customers advanced multimedia services through additional upstream and downstream bandwidth availability. It provides them with an economic option for greater than 160 Mbps of user data throughput, without the need for a hybrid fiber coax (HFC) plant upgrade. The SB6120 supports both IPv4 and IPv6, and Advanced Encryption Services as part of the DOCSIS 3.0 standards.

The SB6120's enhanced tuner supports up to a 1 GHz downstream input, allowing cable operators to increase the frequency spectrum for data services. It is backwards compatible to DOCSIS 1.0, 1.1, 2.0 and can be deployed without service interruption, maximizing current infrastructure investment and enabling deployment of new value-added services. The SB6120 is DOCSIS 2.0 certified and DOCSIS 3.0 complaint.

The SB6120 connects to a computer through a 10/100/1000 Base-T (RJ-45) Ethernet and provides intuitive, easy to read front panel operational status LEDs for: power, receive, send, online, and PC connectivity. Operators can optionally activate dual colored LEDs for a customer to have visual verification of bonded channels and a GigE link.

The SB6120 unlocks the potential of offering innovative, high bandwidth data and multimedia services to cable's broadband customers. These include:

- Helping protect an operators' installed base of high-speed data customers .
- Delivering high-bandwidth, multimedia services .
- Delivering competitive, high-capacity commercial services to business customers .
- Expanding network addressing capability using IPv6 addresses .
- Utilizing upgraded plant spectrum, to 1 GHz, for downstream data services
- It's designed for Service Assurance – Quality of Service at the edge of the network – compatible with Motorola's Element Management system, and with Motorola's eCare for remote access customer component troubleshooting and configuration.



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