



# SURFboard<sup>®</sup> SVG2500

## Wireless Voice Gateway

IP telephony, high-speed data with router and firewall, and a wireless access point converge in one convenient package.

### Highlights<sup>1</sup>

**Voice and data flow seamlessly between mobile and landline**

**Easy to set up and use**

**Versatile and convenient**

- One USB port and four 10/100 Ethernet (RJ-45) ports enable flexible, high-speed connectivity
- Integrated 802.11b/g wireless access point and up to two lines (RJ-11) of full-featured telephone service provide maximum convenience in a small footprint

**Advanced router and firewall**

**Power management enhancements optimize dual-mode handset battery performance**

**Integrated, field-replaceable Lithium-ion battery<sup>3</sup>**

### Seamless Mobility in A Stylish Package

Show your premium customers that you appreciate their business and you are serious about yours. Designed for seamless mobility, Motorola's SURFboard SVG2500 Wireless Voice Gateway is a fully integrated telecommunications solution that combines the functionality of a cable modem, embedded Multimedia Terminal Adapter (eMTA), four-port router with advanced firewall, 802.11b/g wireless access point, and a field-replaceable, integrated Lithium-ion backup battery, along with a stylish Motorola design for the sophisticated consumer.<sup>3</sup>

The Motorola SVG2500 SURFboard Wireless Voice Gateway is an advanced, integrated, and robust residential and commercial telecommunications solution ideal for seamless mobility and PacketCable Multimedia (PCMM) architectures. The SVG2500 combines all the IP functionality today's consumers demand, in a single compact and stylish unit.

### High-Speed Internet Access

Four 10/100 Ethernet RJ-45 ports and a USB port on the full-featured home network router provide both high-speed Internet access and a single platform for home networking, eliminating the need for stand-alone routers, hubs, and access points.

### Digital Voice Telephone Service

The SVG2500 delivers up to two lines of primary-line digital voice telephone service (terminating in RJ-11 connectors) over cable's broadband connection to the home. Voice traffic is prioritized over Internet traffic, giving the user high-quality voice calls, even while surfing the Web. The SVG2500 also supports a variety of rich CLASS features, such as caller ID, call waiting, three-way calling, and call forwarding.

### Wireless Gateway

An 802.11b/g/e/i wireless gateway allows consumers to network computers, gaming consoles, and other peripherals anywhere in the home.

## DATA SHEET

SURFboard SVG2500  
Wireless Voice Gateway

### Provider Benefits

#### Single-infrastructure delivery of multiple services

One infrastructure for communication services, providing the ability to offer customers both residential and cellular phone service, simultaneous use of phone lines and high-speed data services, and a single bill for their voice and data services.

#### Better coverage for more satisfied customers

Increased customer satisfaction from improved in-home coverage, a key user network quality metric.

#### Value-added service packages

Improved customer retention through unique value-added services and the packaging of mobile and landline phone services.

#### Flexible pricing options

Greater pricing flexibility resulting from multi-service packaging and migration of customers to higher-revenue/-margin wireless offerings.

#### All-in-one solution for secure voice and data services

A single product solution with support for a variety of CLASS features provided today by the phone company (e.g., caller ID, call waiting, and call forwarding), advanced routing features, and an integrated firewall to help provide Internet security.

### Consumer Benefits

#### Lower-cost cellular calls

Reduced cellular bill resulting from off-loading the cellular air-interface when calls are made from the DMH in the home through the SVG2500.

#### Better Wi-Fi and cellular coverage

Improved in-home coverage and reliability, which is often limited with cellular service.

#### Higher-quality cellular

Wireline audio quality when passed over the SVG2500's Wi-Fi connection.

#### One-number convenience

Convenience of a single mobile number and voicemail service, whether inside or outside the home.

### Dual Mobile and Landline Delivery

Integrating both cellular and wireless local area network (WLAN) capability, the SVG2500 is designed to provide a seamless gateway for mobile and landline analog voice calls and data communication. When used with a compatible dual-mode handset (DMH), the SVG2500 seamlessly transfers calls between the home's Wi-Fi® network and the cellular network without interruption—securely and reliably, without compromising usability features, such as long battery life in the mobile handset.

### Enhanced Power Management

Providing backup power, the SVG2500's integrated field-replacable Lithium-ion battery minimizes the likelihood that a consumer will lose telephone service during a power outage.<sup>3</sup> In addition, the SVG2500 offers a number of power management features, including 802.11e U-APSD ("WMM Power Save"), which enable users to optimize the battery life of their DMH.

A highlight of the 802.11e power management standard is the synchronization between the SVG2500 and the DMH. The dual-mode cell phone receives data from the SVG2500 at infrequent intervals, allowing the DMH to enter sleep mode when the phone is not in use, thereby minimizing the phone's "on-time" and improving its battery utilization.

### Built-In Security

The SVG2500 is equipped with a number of security features, including:

- 802.11i security (WEP-64/128, WPA-PSK, WPA, WPA2, TKIP, AES, 802.1x)
- 802.11i (pre-authentication)
- IPSEC/PPTP/L2TP VPN end point
- IPSEC/PPTP/L2TP NAT pass-through for VPN tunneling
- User-friendly, secure mobile pairing
- Wi-Fi-protected setup

Motorola's SVG2500 SURFboard Wireless Voice Gateway provides cable operators with an intelligent way to offer their customers high-speed data, landline, and mobile telephone services and an enhanced home network experience using a single broadband communication solution—and an opportunity for single-bill service discounting.

## Additional Highlights

### Ease of Use

- Plug and play installation
- Front-panel LEDs for power, data activity, voice, and battery status
- Intuitive, Web-based diagnostics for quick and easy troubleshooting

### Signaling

- Support for Network Call Signaling (NCS) with future support for Session Initiation Protocol (SIP)

### Telephony

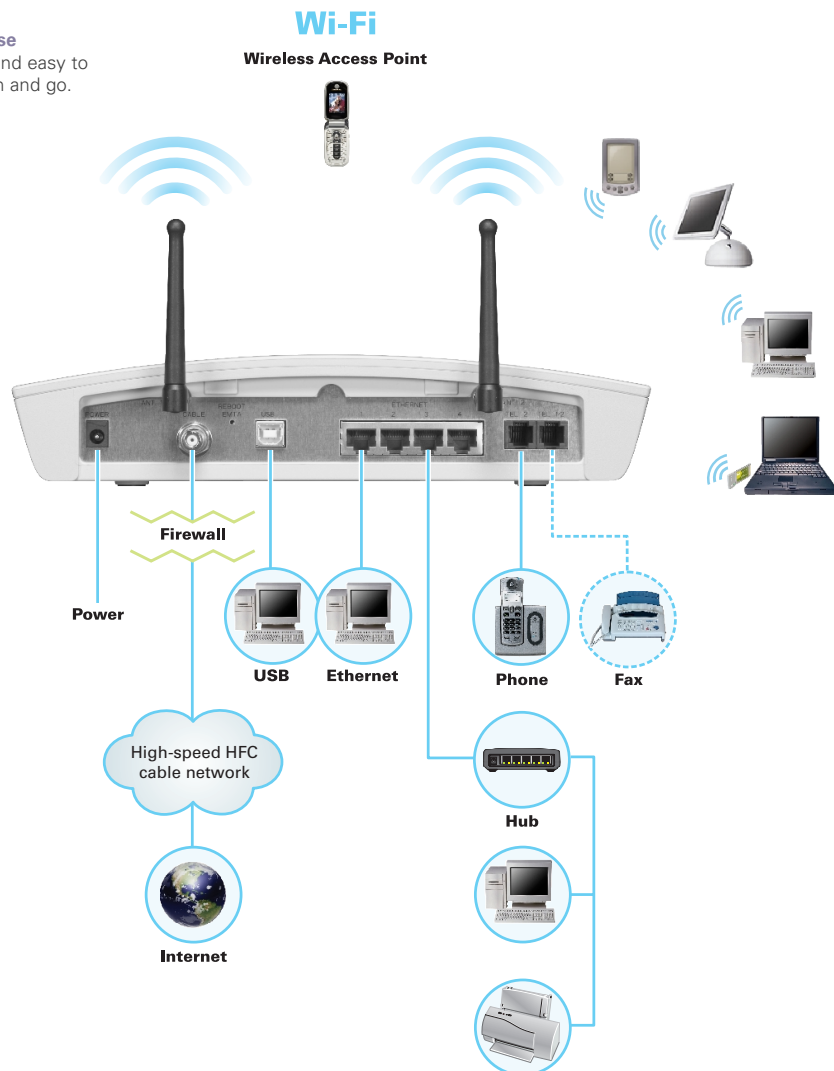
- Support for G.711 as well as multiple low-rate vocoders
- Automatic fax modem processing
- Telco interfaces configurable to meet multiple market standards



DATA SHEET

SURFboard SVG2500  
Wireless Voice Gateway

**Plug-and-play ease**  
Simple to set up and easy to use—just plug it in and go.



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

\*\*Actual data throughput will be less due to physical layer overhead (error correction coding, burst preamble, and guard interval).

\*\*\*With A-TDMA or S-CDMA enabled Cable Modem Termination System (CMTS)

1 Certain features may not be activated by your service provider, and/or their network settings may limit the feature's functionality. Additionally, certain features may require a subscription. Contact your service provider for details. All features, functionality, and other product specifications are subject to change without notice or obligation. Your service provider, not Motorola, is responsible for the provision of Voice-over-IP (VoIP) telephony services through this equipment. Motorola shall not be liable for, and expressly disclaims, any direct or indirect liabilities, damages, losses, claims,

demands, actions, causes of action, risks, or harms arising from or related to the services provided through this equipment. Important: Be aware that you will not be able to make any calls using this VoIP device if your broadband connection is not functioning properly. Battery back-up times may vary based on many factors, including the battery age, charging state, storing conditions, and operating temperature, as well as by factors such as data activity and length of active telephone calls.

2 This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

3 Backup battery is not available for some models of the SVG2500.



**MOTOROLA**

Motorola, Inc. 101 Tournament Drive, Horsham, Pennsylvania 19044 U.S.A. www.motorola.com

MOTOROLA and the Stylized M Logo are registered in the U.S. Patent and Trademark Office. SURFboard is a registered trademark of General Instrument Corporation, a wholly-owned subsidiary of Motorola, Inc. Wi-Fi and the Wi-Fi Alliance logo are registered marks of the Wi-Fi Alliance. All other product or service names are the property of their respective owners. © Motorola, Inc. 2008. All rights reserved.

