

# Sonus GSX4000 Media Gateway

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fixededge



A SONUS NETWORKS PRODUCT

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Over 40% of all  
IP-voice traffic  
passes through a  
Sonus GSX, making  
it the world's most  
trusted media gateway.

Welcome to the gateway of your future.

Beyond this point, the world communicates in a common language,  
boundaries disappear and new opportunities emerge.

The message of today's telecommunications is greater than a single voice. It is millions of voices speaking over hundreds of networks in dozens of languages. Bringing those voices together is the goal of the future. Bridging the divide between them is the role of the Sonus GSX4000™ media gateway.

In the future, all voice networks will be all-IP as they blend rich multimedia like Web and video applications around traditional voice services. Many network operators have already implemented IP from the inside out, building efficient IP cores in their network. However, to leverage the full benefits of IP technology, network operators must also implement IP from the outside in: bringing their PSTN subscribers into the IP core where operators can provide a richer, seamless user experience. The Sonus GSX4000 gateway does this by providing a proven, reliable, high-quality bridge between circuit- and packet-based networks.

**INTELLIGENT BY DESIGN /** More than a media gateway, the GSX series also serves as an intelligent voice switch when combined with the Sonus PSX™ policy/routing server. The GSX4000 Open Services Switch solution represents the industry's most advanced softswitch solution for voice networks, delivering centralized call routing and network management over a scalable, distributed switch architecture that can support more than five million ports in a single network. Unlike the distributed, decentralized network intelligence found in other softswitch solutions, Sonus Open Services Switch offers centralized network intelligence that is distributed across regional switches for optimal network efficiency and nearly infinite scalability.

With its advanced design, the GSX series can grow and adapt as network traffic evolves from TDM-to-IP to all-IP. Today, you'll find the GSX at the heart of the world's most advanced voice networks: as an IP softswitch, international gateway, secure IP-to-IP peering solution, Gateway MSC, Class 4 and Class 5 trunk replacement and more. Versatile, reliable, scalable and affordable, the GSX4000 gateway opens the door to a world of possibilities.

At Sonus Networks, we've been at the center of the IP evolution for more than a decade. As our flagship product, the GSX media gateway has evolved with us. Today, it features a more efficient

design, more protocol support for wireless and packet networks and more than 2x its previous signaling capacity. We built our reputation on the GSX series so that you could build your future on it.

**SESSION BORDER CONTROL /** The GSX series can also be configured to provide full session border control functionality as a Sonus Network Border Switch (NBS). The Sonus NBS provides sophisticated and reliable security for IP-to-IP peering and access connections. The NBS supports advanced security features including encryption, topology hiding, DoS protection and QoS safeguards.

**OPEN, FUTURE-SMART ARCHITECTURE /** At Sonus, we're open to the world around you: legacy networks, multivendor peer equipment, third-party applications and whatever the future brings (IMS, LTE, etc.). That's because the GSX series and all of our products are built on open industry standards: UNIX, IPv6, SIP, IMS/TISPN, etc.

**ADAPTABLE, FLEXIBLE /** The GSX4000 media gateway adapts as a network changes, so operators can re-deploy it as a Class 5 switch or border security solution as their IP migration moves onward and outward. The flexibility of the GSX series makes it the perfect team player in today's evolving voice networks.

**LOWER TOTAL COST-OF-OWNERSHIP /** With its small footprint and low energy consumption, a single GSX4000 switch can dramatically reduce network operating expenses. With a comparatively low price point, the GSX4000 also allows network operators to pay for the performance they need.

**SUPPORT FOR WIRELESS NETWORKS /** Wireless, wireline and IP networks come together with Sonus solutions. The GSX series features robust protocol and codec support for GSM, CDMA, UMTS, AMR, S7/C7 and more. Each port also supports advanced voice-quality features like voice compression, echo cancellation and silence suppression for toll-quality voice.

**ABOUT SONUS NETWORKS /** Network operators around the world count on Sonus Networks to bring them into the future. We've brought IP to the core since 1997, and today we're a global leader in IP-voice, with over half of the world's top 10 telecommunications providers as our customers.

To learn more about our fixedEdge solutions, contact your Sonus sales representative or visit us online at [www.sonusnetworks.com](http://www.sonusnetworks.com).

## Features at a glance

- > The world's most popular media gateway: Sonus Networks named #1 worldwide market share leader in high-density gateways  
—Q1 2008 rankings, Synergy Research Group
- > Open, standards-based architecture supports third-party solutions and integrates seamlessly with back-office applications like billing and accounting
- > High-availability (99.999%): redundant components, live software upgrades and automatic protection switching
- > Advanced digital signal processing for toll-quality voice: echo cancellation, low transit delays, voice compression, adaptive jitter buffers, silence suppression, etc.
- > Robust transcoding of media and interworking of signaling languages: TDM, IP, G.711, AMR, SIP, SIP-I and much more.

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