

# **VIRATA UNVEILS HIGHLY-INTEGRATED VOICE OVER IP CHIPSET CAPABLE OF REDUCING CUSTOMER DESIGN CYCLES BY 400+ PERCENT**

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Monday, 26 November 2001

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Virata's Outstanding Level of Integration Leads to Lower Customer

Development Costs, Speeds Time to Market and Simplifies Product Development

Virata® Corporation [Nasdaq: VRTA] today announced its new Azurite VoIP solution, which combines a Helium or Nitrogen communications processor and software with a Magnesium DSP and voice software. By integrating these critical components into one complete VoIP platform, Virata expects to offer the industry's best BOM costs, simplify customer's development of VoIP products and reduce design cycles from a typical 12-18 months to an estimated 3-6 months.

In addition, the Azurite VoIP solution delivers the best-sounding voice over IP capabilities through its unique integration of Quality of Service (QoS) algorithms and high-performance echo-cancellation techniques that provide optimum voice quality even in the most adverse network conditions.

"Whether a customer is designing a DSL modem, home router or integrated access device, we believe the Azurite VoIP chipset is the most competitive solution available today," said Duncan Greatwood, vice president of marketing at Virata. "In fact, many of our customers have already begun designing VoIP products and have selected our Azurite VoIP solution because it meets their cost, performance and time-to-market needs."

VoIP Enables Exciting New Applications

The VoIP market promises to be one of the fastest growing segments of the broadband industry. VoIP technology converges today's separate voice and data access networks, eliminating duplicate networks, simplifying system design, and enabling exciting new services. With VoIP, voice and data share all available network capabilities, and, when implemented correctly, ensures the speed, clarity, and quality of voice calls.

By converging the voice and data networks into one powerful broadband pipe, VoIP promises to bring exciting new revenue-generating services to service providers that offer merged voice, video and data. For example, a combined VoIP email/voice system will enable users to call into voicemail and email

simultaneously; home users will be able to easily add extra phone lines for guests; calls to any or all of a user's phones can be routed to any phone they choose while at work or travelling; and corporations will be able to easily and cheaply add groups of phone lines or link voice lines of new sites.

## About Azurite VoIP Solution

The Azurite VoIP solution was designed to meet the needs of all CPE markets: consumer, small office/home office, small/medium enterprise, and enterprise. The VoIP chipset is a complete and scalable design solution that incorporates Virata Integrated Software on Silicon (ISOS) platforms (Nitrogen or Helium family member with all layer 2 and 3 software) and its Magnesium DSP and voice algorithms. The Helium family of communications processors feature low-cost, PHY-neutral communications processors that enable high-speed Internet access capability for single-and multiple-user end-point devices such as multi-service gateways and small office/home office routers. The Helium chip is fully integrated with a VoIP protocol software suite that handles IP signalling, QoS support, real-time encapsulation and reporting, ATM, frame, routing, bridging, and SNMP management.

The Nitrogen family features high-performance, low-cost communications processors designed for IP switch/router applications.

The Helium and Nitrogen families support all interfaces required for the VoIP device market, such as 10/100 Ethernet, HomePNA, home powerline, and home wireless.

The Azurite VoIP chipset also incorporates Virata's Magnesium family of DSPs, which bundle Texas Instruments' powerful C54x processor with Virata's unique vCore voice algorithms and control-side devices drivers. vCore, the Azurite VoIP DSP software, provides a complete VoIP DSP solution including voice coding, echo cancellation, DTMF signalling, and N-way conferencing. vCore software also provides an open DSP software development framework with a comprehensive set of DSP software algorithms to simply the delivery of highly-capable DSP voice systems.

Delivering a flexible QoS design, the Azurite VoIP solution prioritizes voice over data when needed, handles fragmentation of large IP packets, and minimizes processing and transmission delays. The chipset also ensures controlled IP packet delivery through advanced Dynamic Jitter Buffer Design, and accommodates lost packets through patent-pending Lost Packet Compensation. These capabilities add-up to high-quality voice delivery using the Azurite VoIP solution.

The Azurite VoIP chipset featuring a Helium family member, Magnesium 09 and four-line configuration is priced at in OEM quantities; and the Azurite VoIP chipset featuring the Nitrogen family member, Magnesium 09 and four line configuration is priced at in OEM quantities. Both configurations are scheduled to be in volume production in December 2001.

## About Virata

Virata provides communications software and semiconductors to manufacturers of DSL, wireless, satellite and other broadband networking equipment. Virata's suite of processor-independent software products provide developers with complete, field-proven implementations of networking functions, including MPLS and web servers, removing the need to write and validate new software code.

Virata also pre-integrates its extensive suite of communications software with its powerful and cost-effective communications processors to create the ISOS platform. ISOS assists customers in developing a diverse range of Virata-Enabled broadband wireless and wireline equipment including DSL modems, gateways, routers, and integrated access devices targeted at the voice and high-speed data network access and customer premises markets. Virata's ISOS platform also helps equipment manufacturers simplify product development, reduce the time it takes for products to reach the market and focus resources on product differentiation and improvement.

Virata is a member of the ATM Forum, Bluetooth SIG organization, the DSL Forum, HomePNA, ITU, MPLS Forum, WC3 consortium and UPnP Forum. A publicly traded company on the Nasdaq Stock Market, Virata was founded in 1993 and is headquartered in Santa Clara, California.

For more information, please visit <http://www.virata.com>

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