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[Arcturus Networks, Encore Software And Redpine Signals Join Forces To Deliver Solutions Kit For Freescale Voice Processor](#)

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ARCTURUS NETWORKS, ENCORE SOFTWARE AND REDPINE SIGNALS JOIN FORCES TO DELIVER SOLUTIONS KIT FOR FREESCALE VOICE PROCESSOR

Collaboration nets multiple connectivity options as well as a rich software portfolio for digital voice applications.

Toronto, Bangalore and San Jose – APRIL 6, 2011 Arcturus Networks Inc., Encore Software and Redpine Signals today announced the availability of an enhanced, bundled software solution for wired or wireless digital voice applications. The solution is the product of a three-way collaboration that has resulted in a highly optimized system-level solution available for Freescale Semiconductor's advanced MCF5301x voice processor family. The solution is geared toward industrial and consumer digital voice applications including VoIP devices, intercom systems, access control applications, healthcare and point-of-sale devices.

The software is built on the ColdFire® embedded Linux distribution, enhanced with components provided by all three groups. Overall integration was completed by Arcturus to form a system-level development kit that includes complete hardware, software and out of the box demos. The software package also includes an integrated voice processing sub-system optimized for the ColdFire architecture by Encore Software.

“Encore Software’s voice processing subsystem is tightly coupled with the hardware in order to make use of internal CPU acceleration and SRAM. The result is a highly optimized suite of vocoders as well as robust acoustic echo cancellation algorithms that are performance tuned for the system architecture” said Vasuki M P, vice president, from Encore Software.

WAN/LAN and WLAN

“Multiple connectivity options are made available through the dual Fast Ethernet Controllers (FECs) supported by the MCF5301x processor as well as support to enable 802.11 b/g/n wireless network communications using Redpine Signals’ RS9110-N-11-02 802.11n WLAN module, utilizing the processor’s Secure Digital Host Controller (SDHC).”

“Redpine Signals’ 802.11n n-Link™ module, which is among industry’s first to get Wi-Fi Direct and voice-personal certification from Wi-Fi Alliance, provides ultra low-power and high data rate wireless LAN support extending the connectivity options of the overall system to include applications such as wireless belt-pack, handsets and voice gateways. The MCF5301x solution kit includes Redpine’s 802.11n board along with all the software making it very easy to integrate in the end system,” said Venkat Mattela, CEO of Redpine Signals.

Pricing, Options, and Resources

The modular hardware development kit was designed by Arcturus to provide developers a reference tool as well as a product ready hardware implementation suitable for OEM applications. Arcturus also provided core middleware subsystems for voice and device management.

“Our middleware components accelerate development by providing the building blocks to create an array of digital voice devices. By leveraging our middleware, developers have access to a complete VoIP and broadcast voice sub-system as well as a full management infrastructure with web user interface, device discovery, firmware and remote management,” said David Steele, product manager at Arcturus.

NRE-free License Model

All licenses for software use are bundled by Freescale and included as part of the MCF5301x voice processor part numbers. This model eliminates prohibitive upfront NRE charges as well as the need to integrate multiple software components from various vendors.

“By working with our partners, Freescale has been able to help remove a considerable barrier for developers by eliminating the extensive upfront NRE charges associated with other system-level VoIP and digital voice solutions,” said Rudan Bettelheim, product manager at Freescale Semiconductor.

Pricing and Availability

The [development kit](#) includes an MCF53017-based system module, host board, Redpine signals RS9110-N-11-02 n-Link WLAN SDIO evaluation board, debugger, cables, headset and power supply. Support is provided directly by Arcturus through a dedicated online support site. The system is currently available for a suggested retail price of \$799US through Freescale distributors or Arcturus direct.

About Arcturus Networks Inc.

Arcturus Networks Inc. is a leader in providing embedded solutions for communication and industrial applications. Recognized as a pioneer of uClinux, Arcturus has contributed to the innovation of thousands of products and helped to establish embedded Linux solutions as a de-facto global standard. Arcturus simplifies product development by creating enabling technologies including a line of product

-ready hardware modules, corresponding open source OS packages and middleware solutions for device management and media. Arcturus middleware is award-winning and certified interoperable by leading infrastructure vendors. For more information, visit www.arcturusnetworks.com.

About Encore Software Ltd.

Encore Software Ltd., is a product development company, based in Bangalore, India. Encore's software products include licensable VoIP software modules, DSP based vocoders and soft modems. Apart from licensing the components, Encore has the expertise to deliver a complete product design solution for OEMs targeting the VoIP product market. For more details on Encore's offerings, please visit www.ncoretech.com.

About Redpine Signals

Headquartered in San Jose, California, Redpine Signals, Inc., is a fabless semiconductor and wireless system solutions company focusing on ultra-low-power and high-performance products for next-generation wireless applications. Redpine was founded in 2001 and was the first in the industry to launch an ultra-low power and high performance single-stream 802.11n chipset in late 2007. Redpine offers chipsets, modules and solutions covering multiple market segments including industrial, consumer electronics, medical, mobile, PC, and smart energy. Redpine is launching multi-stream 11n products in 2011. It has also announced the availability of Mobile WiMAX and 3GPP LTE technologies. For more information on Redpine products, visit <http://www.redpinesignals.com/> or contact Redpine at info@redpinesignals.com.

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ColdFire is a registered trademark of Freescale Semiconductor Limited. All other trademarks included herein are the property of their respective owners.

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