News Release

Freescale and Arada Systems collaborate to streamline development of 802.11n access point devices.

Joint reference design is powered by Freescale's MPC8377E-RDB platform

AUSTIN, Texas – July 14, 2008 – Freescale Semiconductor and Arada Systems have collaborated to create a production-ready reference design offered to help speed and simplify the development of concurrent 802.11n access point devices. The solution supports advanced 802.11n features such as security, QoS and multiple SSID for both video and VoIP applications.

The reference design leverages Freescale's MPC8377E-RDB platform to deliver more than 330 Mbps of TCP/IP throughput in the combined 2.4 GHz and 5.0 GHz bands, while providing enough processing power to address other enterprise-class applications.

"Partnering with Arada allows us to offer our customers a proven, production-ready solution that provides industry leading performance for 802.11n enterprise WLAN access points," said Altaf Hussain, marketing manager with Freescale Semiconductor's Networking Systems Division. "This solution gives manufacturers the components they need to rapidly create compelling new products that succeed in the marketplace."

Running on the Freescale silicon is Arada's AWS software, which is a highly scalable architecture ideal for a range of Wi-Fi® products including wireless bridges, wireless routers and triple-play gateway applications. AWS features Atheros Draft 802.11n XSPAN technology. The modular architecture of the AWS software allows customers to focus on high value tasks while relying on the robust architecture and implementation of the MAC layer functionalities.

AWS includes a unique extensible layer called SoftChip, which maximizes the advanced capabilities of Atheros Wi-Fi chipsets. AWS features a true enterprise-class Wi-Fi software stack that supports dual-concurrent 2.4 GHz and 5.0 GHz designs while providing the flexibility to support various fat, fit and thin AP models.

"Arada Systems is excited to venture in this partnership with a world-class company like Freescale," said Praveen Singh, president and chief executive officer of Arada Systems. "There is tremendous growth expected in 802.11n within emerging applications, and Freescale's architecture allows us to exploit many features including PCI- and PCI Express®-ready capabilities."

Freescale's MPC8377E-RDB is a highly integrated reference design board created to speed time to market. The platform features 256 MB unbuffered DDR2 SDRAM, 8 MB NOR flash and 32 MB NAND flash, where the platform can boot from either NOR or NAND flash. It includes both a Gigabit PHY and a 5-port Ethernet switch, as well as support for a PCI Express add in connector and a MiniPCI Express slot. The platform supports two Serial-ATA

II (SATA II) connectors and has a 4-port USB hub or a 1-port USB on-the-go (OTG). These components, integrated with the MPC8377E processor, provide an application-specific platform that can help customers get a jump start on their next application design.

Along with hardware support, the MPC8377E-RDB comes with a board support package (BSP) that includes both U-boot and Linux® 2.6 support.
The MPC8377E processor is based on the e300 core, built on Power Architecture® technology, and has a frequency range of 400–667 MHz. It supports a 32K instruction and L1 data cache. The device also supports two Gigabit Ethernet controllers, USB 2.0, PCI 2.3, 64/32-bit DDR1/2 and an integrated security engine, as well as two x1 PCI Express and two SATA II controllers.

Availability
The dual concurrent 802.11n access point reference solution based on Freescale technology is available now from Arada.

About Arada Systems
> Arada Systems is a leading software stack vendor that offers advanced wireless solutions based on Atheros' world-class Wi-Fi chipsets. Arada Systems offers a wide array of products and services to customers developing cutting-edge applications of Wi-Fi in various verticals including the Enterprise, outdoor, automotive and carrier spaces. Along with a versatile team of leading industry experts from various Wi-Fi companies, Arada Systems brings tremendous experience and expertise to solve complex issues around Wi-Fi applications and provides customizable solutions that meet various market segments. Arada Systems' headquarters is in Silicon Valley, Sunnyvale, Calif., with development centers in India's Silicon Valley in Bangalore. For more information on Arada Systems, please visit http://www.aradasystems.com

About Freescale Semiconductor
Freescale Semiconductor is a global leader in the design and manufacture of embedded semiconductors for the automotive, consumer, industrial, networking and wireless markets. The privately held company is based in Austin, Texas, and has design, research and development, manufacturing or sales operations in more than 30 countries. Freescale is one of the world's largest semiconductor companies with 2007 sales of $5.7 billion (USD).
www.freescale.com

Arada Media Contacts:
Priyank Desai
Product Manager
(408) 773-9298
priyank@aradasystems.com

Freescale Media Contacts:

Americas
Jack Taylor
Freescale Semiconductor
(512) 996-5161 office
(512) 560-7143 mobile
jack.taylor@freescale.com

Asia Pacific
Gloria Shiu
Freescale Semiconductor
(85-22) 666-8237
gloria.shiu@freescale.com

Europe, Middle East and Africa
Laurent Massicot
Freescale Semiconductor
(33-16) 935-7712
laurent.massicot@freescale.com

India
Sanjeeth Boloor
Freescale Semiconductor
(91-80) 4149-4685
sanjeeth.boloor@freescale.com

Japan
Masako Tanikawa
Freescale Semiconductor
(81-3) 5437-9128
Masako.tanikawa@freescale.com

Reader Inquiry Response:
Freescale Semiconductor
P.O. Box 17927
Denver, CO 80217 USA

http://media.freescale.com/phoenix.zhtml?c=196520&p=irol-newsArticle&ID=1174149&highlight