



ICERA LAUNCHES ICECLEAR™ TECHNOLOGY TO TRIPLE HSPA USER DATA RATES & CELL SITE CAPACITY

World's First Interference-Aware Technology Delivered on Mass Market Platform

Bristol, UK, 20 January 2010 Icera Inc., the Mobile Broadband semiconductor company, today announced the availability of IceClear™, the company's new "interference-aware" receiver technology. Using sophisticated signal processing algorithms implemented in software, IceClear™ cancels the effect of interference from other cells, delivering up to triple the previous user data rate and cell site network efficiency. IceClear™ has been shortlisted for a GSM Association 2010 Global Mobile Award in the Best Mobile Technology Breakthrough category.

Interference-aware receiver technology has been known to achieve substantial user throughput and cell capacity gains for some time, but until now has been prohibitively complex and expensive to implement. The advantage of IceClear™ is to deliver this technology in software at no additional silicon cost.

IceClear™ provides material gains in user throughput right across the cell site but with particularly high gains towards the cell edge. In representative tests, where one dominant interfering cell limits user throughput to a few hundred kilobits per second, IceClear™ multiplies the throughput by a factor of up to 3.6 times.

Steve Allpress, CTO of Icera Inc., said: "IceClear™ is the latest in a series of innovations that is providing continuous competitive advantage to Icera's customers. Mobile network operators are focusing on and differentiating themselves through the quality and consistency of their mobile broadband services. They can now look forward to delivering dramatically improved user data rates on their existing networks in a matter of weeks. This means that true mobile broadband can now be a reality for cellular users, irrespective of where in the network they happen to be."

Until now, the mobile broadband user experience has tapered from the high headline rates achieved when the user is close to the base station, to much lower data speeds at the cell edge. Previously, the data throughput has been further seriously limited at the cell edge due to interference, referred to as dominant interference power, from signals of the same frequency and of similar strength, transmitted by adjacent cell sites.

The use of current generation equalizer and diversity technology in mobile broadband chipsets materially improved user data rates compared with earlier rake receiver systems, however data rates remained poor at the cell edge in loaded networks. Hardware-based methods of cancelling the

dominant interference sources require additional complex and silicon-hungry signal processing algorithms. For these cost and complexity reasons, no other mainstream HSPA chipsets have delivered interference cancellation technologies in production products to date.

Unlike any other baseband technology, Icera's Adaptive Wireless™ executes the entire modem in software on a specific high performance processor. This approach produces a unique flexibility to develop and implement advanced algorithms, which can adapt dynamically to specific channel conditions, in software, without the need to add any extra silicon blocks to the chip.

IceClear™ is included in the latest version of Icera's Adaptive Wireless™ soft modem providing a significant enhancement to customers with what is already independently recognized as the industry's top-performing HSPA mobile broadband technology.

About Icera

Icera is a fabless semiconductor company, pioneering high performance, low power, soft modem chipsets for the fast growing mobile broadband device market. Icera technology delivers the highest performance modem solutions for USB dongles, datacards, laptops, mobile internet devices and smartphones. Founded in 2002, Icera is headquartered in the UK, with design locations in the UK, France, North America and China, with customer engineering and sales offices in Europe, Asia and the USA. For more information, visit the Icera web site at www.icerasemi.com.

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