Eta Devices Launches World’s Most Efficient Power Amplifier for Mobile Base Stations


TELCO ENERGY & INFRASTRUCTURE CONFERENCE, LONDON – November 12, 2013 – Eta Devices, Inc. today announced availability of the world’s most efficient power amplifier for mobile base stations, using new patented technology that exploits the extreme performance capabilities of GaN switching power amplifiers, advanced supply modulation and digital predistortion algorithms.

“Our power amplifier architecture brings real sustainability to the world’s mobile operators,” said Mattias Åström, Eta Devices’ co-founder and CEO. “We deliver 70% drain efficiency for 4G LTE – an industry first. By deploying our solution, base station efficiency is doubled compared to current state-of-the-art technology, which saves a tremendous amount of power.”

Eta Devices, a spin-off from the electrical engineering department at the Massachusetts Institute of Technology (MIT), first demonstrated its new power amplifier technology at the 2013 Mobile World Congress in Barcelona in February.

“Until today, mobile operators have not been able to build genuinely sustainable mobile networks,” said Joel Dawson, MIT professor and Eta Devices co-founder and Chief Technology Officer. “They have had no choice other than to focus on relatively minor sustainability initiatives such as changing the vehicle fleet to improve fuel economy, office recycling and substituting some flights with video conferences. While commendable, these initiatives have not touched on the operators’ core business of running mobile networks and as a result the impact has been relatively minor. But, there’s a new game in town. Operators can now double the efficiency of their mobile networks and realize substantial reductions in power usage, resulting in a major reduction in greenhouse gas emissions, and at the same time huge cost savings from using less power.”

On a global level, mobile networks consume approximately 120TWh of electricity per year.

“If Eta Devices’ solution is deployed on a worldwide basis by mobile operators, it would result in a reduction of greenhouse gas emissions equivalent to taking more than 7 million cars off the road” said Åström. “It would also save mobile operators $18 billion per year in utility costs thereby paying for the replacement many times over.”
Prof. Dawson’s presentation at the Telco Energy & Infrastructure Conference, titled “Beyond Token Gestures - Delivering Sustainable Mobile Networks”, will take place at 16:30 today, with an additional panel discussion at 10:00 on November 13. Both sessions are being held at the 15 Hatfields Conference Center. For more information, or to schedule an interview, please e-mail greg@etadevices.com.

About Eta Devices
Eta Devices’ disruptive technology solves the key power challenges in the mobile communications industry. In base stations, this leads to significantly reduced power consumption and smaller cabinets. For handsets, battery life is considerably increased and multiband communications can be enabled at a fraction of the cost and footprint; this makes it possible to use a single LTE handset model all over the world. Eta Devices’ technology also contributes towards a sustainable world by generating substantial carbon footprint reductions. Based on breakthrough research from MIT, Eta Devices is a fabless semiconductor company headquartered in Cambridge, MA with an R&D office in Stockholm, Sweden. For additional product and company information, please refer to www.etadevices.com.

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