

Sivers IMA finalizes 10 Gbps EU project

Sivers IMA AB has participated in the ICT project E3Network supported by the European Union through the FP7 program and contributed with mm-wave knowhow and state of the art transceivers for mm-wave backhaul. This project was initiated in December 2012 and finalized with good results in May 2016. A final review was held in Brussels mid-September 2016.

Within the E3network project, a prototype of a very high-speed (10 Gbps) E-band point-to-point link was designed, manufactured, and evaluated together with several partners. This kind of mm-wave data links covering 71 – 76 and 81 – 86 GHz are crucial for future telecommunication systems supporting high-speed data to the user.

“This project shows Sivers IMA's capabilities to work with many of the best organizations in Europe in order to create a high-speed point-to-point link prototype with very competitive performance”, says Anders Storm, CEO of Sivers IMA.

It has been a very ambitious project which began with a comprehensive system analysis in order to derive the specification necessary for this mm-wave link. The critical hardware was then identified and designed within the project. This included transmit/receive baseband functions implemented in FPGAs and RF front-end circuits using an advanced BiCMOS process. These key hardware parts were combined with commercial blocks to form a complete mm-wave point-to-point link. In parallel with the design work, the project has also been active in the European Telecommunications Standards Institute (ETSI) defining the future usage of E-band in Europe. As a result, the E3network Radio Profile has been accepted as the candidate for the new ETSI 10 Gbps / 2 GHz profile.

The E3network consortium consisted of: CEIT (Spain – coordinator), Fraunhofer (Germany), ALCATEL-LUCENT (nowadays NOKIA – Italy), CEA (France), INCIDE (nowadays IXYS – Spain), Silicon Radar (Germany), ST Microelectronics (Italy), Sivers IMA (Sweden), and OTE (Greece).

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Sivers IMA is a leading manufacturer of micro- and millimeter wave products for connecting and quantifying a networked world. Sivers IMA has a long history and is internationally renowned as a reliable supplier of high quality components used in telecommunications links, RADAR sensors and test & measurement equipment. Headquarters is located north of Stockholm in Kista, Sweden. Learn more at <http://siversima.com>.