

Press Release

Erlangen,
April, 20 2012

Visit us at the Hanover Messe Industrie,
April 23 – 27, 2012, hall 8, booth D30

Wireless Sensor Networks on the Test Bench: Novel Evaluation Kit for Measurement and Control Applications

s-net® is a highly energy efficient solution in the field of wireless sensor networks. The Fraunhofer IIS technology is now available as evaluation kit and is being showcased for the first time at the trade show Hannover Messe Industrie. With s-net®, planned applications can be tested at the designated location, whether metrology, surveillance or control application.

The s-net® evaluation kit "DATA" comprises a master and five sensor nodes, which independently set up a radio network as well as a pre-installed application template. Even defined data packets can be fed to the sensor node and transferred via network to the master node. The user configures and controls the sensor nodes as desired via graphical user interface. "DATA" can also be adapted to specific requirements and put together as evaluation kit, tailored to the customer's needs.

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The s-net® hardware and software are optimized for large-scale, seamless data acquisition and localization. The Center for Intelligent Objects ZIO will demonstrate how the s-net® technology is used as radio-based asset management solution for the efficient use of resources. Supplied with wireless sensor nodes, assets turn into smart objects and can take on various tasks, like room-level accurate localization or the enquiry of environmental parameters.

In addition to s-net®, Fraunhofer IIS will be presenting further cutting-edge developments at the HMI trade show: A deve-

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development kit for real-time positioning for airport, logistics or automation applications, developed and presented in cooperation with the partner PPS. The Fraunhofer researcher will also exhibit how RFID technology finds application in embedded materials like carbon or fibre-glass composite materials.

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For more, please visit

www.s-net-info.com and www.iis.fraunhofer.com

About Fraunhofer IIS

Founded in 1985 the Fraunhofer Institute for Integrated Circuits IIS in Erlangen, today with more than 750 staff members, ranks first among the Fraunhofer Institutes concerning headcount and revenues. As the main inventor of mp3 and universally credited with the co-development of AAC audio coding standard, Fraunhofer IIS has reached worldwide recognition. It provides research services on contract basis and technology licensing.

The research topics are: Audio and video source coding, multimedia realtime systems, digital radio broadcasting and digital cinema systems, integrated circuits and sensor systems, design automation, wireless, wired and optical networks, localization and navigation, imaging systems and nanofocus X-ray technology, high-speed cameras, medical sensor solutions and supply chain services.

The budget of more than 95 million Euro is mainly financed by projects from industry, the service sector and public authorities. Less than 25 percent of the budget is subsidized by federal and state funds.

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