

PRESS RELEASE

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Fraunhofer IIS and RoodMicrotec Team up for Complete ASIC Solutions

Erlangen, December 15, 2014: RoodMicrotec and Fraunhofer Institute for Integrated Circuits IIS have agreed to expand their existing cooperation. The aim is to offer their customers complete solutions throughout the whole supply chain, from ASIC design to volume production.

Fraunhofer IIS, one of Europe's leading IC design facilities, located in Erlangen, Germany, and RoodMicrotec, an independent value-added service provider in the area of micro and optoelectronics for Fabless Companies and OEMs, will combine their experience, know-how, equipment and highly skilled staff to provide their customers with a more efficient and complete supply chain solution from concept through all processes of design, manufacture, assembly, electrical test, qualification and finally delivery of the end-product ready for volume production.

"Fraunhofer IIS has a proven track record as a technology and foundry independent design facility and offers access to Multi Project Wafer fabrication as well as to single die tooling with ams AG, IHP and GlobalFoundries", says Philip Nijenhuis, CEO of RoodMicrotec. "Based on this cooperation, we are able to offer all services required to work from a specification or a design through to fully tested ICs to ASIC users, Fabless Companies (fabless design houses) and IP providers." Fraunhofer IIS works on advanced ASIC and IP solutions in a broad range of technologies. It has long-term business partnerships with ams AG and IHP Microelectronics and access to other world class foundries such as XFab and TowerJazz. Fraunhofer IIS also acts as GlobalFoundries channel partner.

"In times when ASIC suppliers and foundries tend to concentrate on key customers with very high volumes it is important also to provide easy access to ASICs for start-ups and companies with lower volumes", explains Josef Sauerer, Head of the Department for Integrated Circuits and Systems at Fraunhofer IIS. "RoodMicrotec complements our service portfolio. Together, we can provide our customers with fully qualified and tested ICs in any volume." RoodMicrotec is an established supply chain service provider that is strong in engineering, test, qualification & failure analysis capabilities. Using state-of-the-art equipment for test and qualification, it has a wide range of experience in industrial, automotive, medical and aerospace solutions. It also partners with IMEC, EMPA, Nanoscope and Nanophysics.

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FRAUNHOFER INSTITUTE FOR INTEGRATED CIRCUITS IIS

This partnership will not only help Fraunhofer IIS and RoodMicrotec to expand their service portfolio but will also meet customer demand in many application areas.

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About Fraunhofer IIS, Erlangen

The Fraunhofer-Gesellschaft is the leading applied research organisation in Europe. Its research activities are conducted by 67 institutes and research units at locations throughout Germany. The Fraunhofer-Gesellschaft employs a staff of more than 23,000, who work with an annual research budget totalling 2 billion euros.

Founded in 1985, Fraunhofer Institute for Integrated Circuits IIS in Erlangen, Germany, ranks first among the Fraunhofer Institutes in terms of headcount and revenues. As the main inventor of mp3 and universally credited with the co-development of AAC audio coding standard, Fraunhofer IIS has achieved worldwide recognition.

In close cooperation with partners and clients, the Institute provides research and development services in the following areas: Audio & Multimedia, Communications Systems, Energy Management, IC Design and Design Automation, Imaging Systems, Medical Technology, Non-destructive Testing, Positioning, Safety and Security Technology, Sensor Systems plus Supply Chain Management.

Over 830 employees conduct contract research for industry, the service sector and public authorities.

Fraunhofer IIS with its headquarters in Erlangen, Germany, has further branches in Dresden, Fuerth, Nuremberg, Coburg, Deggendorf, Ilmenau, Wuerzburg, Bamberg and Waischenfeld. The budget of 108 million euros is mainly financed by projects. Less than 25 percent of the budget comes from federal and state funds.

About RoodMicrotec

With 45 years' experience as an independent value-added service provider in the area of micro and optoelectronics, RoodMicrotec offers fabless companies, OEMs and other companies a one-stop shopping proposition. With its *powerful solutions* RoodMicrotec has built up a strong position in Europe.

Our services comply with the industrial and quality requirements of the high reliability/space, automotive, telecommunications, medical, IT and electronics sectors.

"Certified by RoodMicrotec" concerns inter alia testing of products to the stringent ISO/TS 16949 standard that applies to suppliers to the automotive industry. The company also has an accredited laboratory for test activities and calibration to the ISO/IEC 17025 standard.

The value-added services comprise inter alia (eXtended) supply chain management, failure & technology analysis, qualification & burn-in, test- & product engineering, production test (including device programming and end-of-line service), ESD/ESDFOS

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assessment & training, quality & reliability consulting and total manufacturing solutions with partners.

RoodMicrotec has branches in Germany (Dresden, Nördlingen, Stuttgart), the UK (Bath) and the Netherlands (Zwolle).

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Philip Nijenhuis (l.), CEO of RoodMicrotec, and Josef Sauerer, Head of the Department Integrated Circuits and Systems at Fraunhofer IIS, will expand their existing cooperation.

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Detailed information on www.iis.fraunhofer.de/en.