

# Press Release

Erlangen/Las Vegas,  
April 12, 2010

## Fraunhofer IIS Delivers Premium One-Stop Shop for Digital Radio Systems

Fraunhofer IIS, the leading innovator of technologies for audio and multimedia products, is delivering the industry's true one-stop shop for terrestrial and satellite-based digital radio systems.

From transmission to the receiver, Fraunhofer IIS develops and implements all technologies and components needed to build and support radio systems, standards and devices along the digital radio broadcasting chain. Fraunhofer IIS offers ready-to-use products, as well as flexible technology options, to cater to the specific requirements of broadcasters, broadcast industry manufacturers and component suppliers.

Fraunhofer's complete one-stop shop line of technology offerings and dedication to ongoing research and design is complemented by the institute's contribution to the design and standardization of many digital radio systems in the western hemisphere, including Digital Audio Broadcasting (DAB) and Digital Radio Mondiale (DRM) as well as U.S. and European satellite radio systems, such as SiriusXM Satellite Radio, ESDR and DVB-SH. This industry perspective and expertise combined with full technology offerings allow Fraunhofer to deliver on the demands of the radio market.

"For over 20 years, Fraunhofer IIS has offered broadcasting products and development services dedicated to the design and implementation of terrestrial and satellite-based digital broadcasting systems," said Harald Popp, head of the Multi-

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media Realtime Systems department of Fraunhofer IIS. "Our deep expertise and technology solutions provide a true one-stop shop in digital radio."

The transmission side of Fraunhofer's digital radio broadcast solutions includes OEM radio broadcast encoders for Digital Audio Broadcasting (DAB) and Digital Radio Mondiale (DRM). The Fraunhofer ContentServer product line is a one-box solution including real-time audio encoding, data service management and multiplex generation capabilities. Fraunhofer's sender side offerings also include a broad product line of sophisticated test and monitoring equipment and measuring systems, designed to support the development and testing of transmitters and receivers.

On the receiver side of digital radio, Fraunhofer IIS offers reference designs for complete radio modules. From the tuner and baseband processing to the audio and data services decoder, the institute provides a complete integration of all components into one module. Setting itself apart in the industry, Fraunhofer IIS has the ability to incorporate customer requests and the flexibility to add new features as needed. For example, the DAB receiver kit allows receiver manufacturers to efficiently enhance their radio platforms with the full range of the DAB feature set.

In addition to complete systems, Fraunhofer IIS also offers individual components for transmitter and receiver equipment to manufacturers. This includes audio codecs such as MPEG Layer-2 for DAB Classic or MPEG HE-AAC for DAB+, data

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applications such as Journaline, protocol stack implementations, transport protocols and conditional access solutions such as HECA.

Fraunhofer is showcasing its one-stop shop transmission and receiver technologies for digital radio systems, including two new radio modules with tier-one U.S. electronic component companies, at NAB 2010, Central Hall, booth C 1446.

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### **About Fraunhofer IIS**

The Fraunhofer IIS Audio and Multimedia division, based in Erlangen, Germany, has been working in compressed audio technology for more than 20 years and remains a leading innovator of technologies for cutting-edge multimedia systems. Fraunhofer IIS is universally credited with the development of mp3 and co-development of AAC (Advanced Audio Coding) as well as technologies for the media world of tomorrow, including MPEG Surround, MPEG Spatial Audio Object Coding and the Fraunhofer Audio Communication Engine.

Through the course of more than two decades, Fraunhofer IIS has licensed its audio codec software and application-specific customizations to at least 1,000 companies. Fraunhofer estimates that it has enabled more than 1 billion commercial products worldwide using its mp3, AAC and other media technologies.

The Fraunhofer IIS organization is part of Fraunhofer-Gesellschaft, based in Munich, Germany. Fraunhofer-Gesellschaft is Europe's largest applied research organization and is partly funded by the German government. With 17,000 employees worldwide, Fraunhofer-Gesellschaft is composed of 59 Institutes conducting research in a broad range of research areas. For more information, contact Matthias Rose, matthias.rose@iis.fraunhofer.de, or visit [www.iis.fraunhofer.de/amm](http://www.iis.fraunhofer.de/amm).

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