
Invitation

The State Media Authority of Rhineland-Palatinate, Germany, (LMK),
the University of Kaiserslautern, and the University of Applied Science (FH) Kaiserslautern invite
you to the

Symposium

The Way to Digital Broadcast by DAB and DRM+ for Local Radio and Community Media

- Milestones in Rhineland-Palatinate, Germany and Europe -

Thursday, 3rd July 2014

**at the Conference Center of Fritz-Walter-Stadium
in Kaiserslautern**

Motivation of the Symposium

A portable digital radio transmitter for DAB and DRM+ in VHF band III including a multiplex exciter and a VHF transmit unit has been designed and implemented during the last months at the University of Kaiserslautern. This project, issued by LMK and supported by Fraunhofer Institute for Integrated Circuits in Erlangen, Germany, as well as by the University of Applied Science (FH) Kaiserslautern, is based on commercially available low-price components and open-source software. The VHF transmit unit includes an USRP from ETTUS Research as modulator and a linear amplifier of 100 W transmit power. This unit as well as the exciter are housed in two roller flight cases. The idea of the project originates from Switzerland where using this open-source solution “DAB islands” will be built up soon for non-commercial radio in the larger cities of Switzerland.

In addition to DAB, this transmitter is able to broadcast DRM+ in VHF band III because of the integrated DRM+ software modulator “SPARK”, which then can be used for further DRM+ projects.

The project partners aim to address especially local broadcasters and community media in German-speaking regions in this symposium by presenting the radio transmitter for DAB and DRM+ in VHF band III, since it makes an affordable digital transmitter infrastructure available especially for “small radio” broadcasters in order to pave the way to digital terrestrial broadcasting.

The symposium is sponsored by

Abstract of Topics

During the first part of the symposium the project partners will address the motivation, the concept, the set-up of this digital radio transmitter, and the results of lab measurements.

As a commercial alternative to the open source multiplex exciter the Fraunhofer Institute for Integrated Circuits in Erlangen will present its ContentServer.

The contributions of representatives from national and international community radio on their perspectives of digitization for local radio broadcasters and community media by DRM+ or DAB in VHF band III are awaited with suspense. Experts from Switzerland will give detailed reports on the framework conditions and the set-up of "DAB islands" in the larger cities of their country.

In the afternoon, the portable radio transmitter will be put into service at location FH Kaiserslautern for simultaneous DAB and DRM+ broadcast. In this context current developments of DRM+ receivers are presented.

At an exhibition area contributing companies and institutions will present their products and services.

The conference language will be predominantly German.

Online Registration

Attending the symposium is free of charge, but registration is required due to limited number of participants.

Please register online on our [symposium site](#).

Program of the Symposium and Further Information

On the project homepage www.drm-radio-kl.eu the current program of this event can be found as well as further information on the symposium (travel, hotels etc.) and information on previous work of the project partners in the field of digital radio, DAB, DRM and HD Radio.

Sponsors of the Symposium

Fraunhofer Institute for Integrated Circuits IIS, NXP Semiconductors, Radio RPR1, Antenne Kaiserslautern and Antenne Mainz

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