

IZT Shows Solutions for Digital Radio Systems and High-Performance Test and Measurement Products

International Broadcasting Convention – IBC 2019

At this year's International Broadcasting Convention (IBC 2019) in Amsterdam from September 13 to 17 (hall 8, booth A.68), IZT GmbH is presenting solutions for digital radio systems as well as high-performance test and measurement products. Show highlights are new features for IT-based digital radio head-ends, a RF signal source with enhanced support for broadcast standards and equipment for virtual field tests.

The German technology company based in Erlangen offers, among other products, solutions for broadcast infrastructures like the IZT DAB/DRM ContentServer in addition to the IZT DAB Archive, a system for quality control and long-term archiving of DAB multiplexes.

With the signal generator platform IZT S1000/IZT S1010, IZT is also exhibiting a flexible RF test source supporting modulation for various communication and broadcast standards. The signal generators are applicable as a signal source in a laboratory. This also includes the usage of the devices as part of the IZT Record and Playback System. IZT therefore offers various RF receivers and enables to record a real-time bandwidth of 120 MHz with its new top of

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More information is available at:

<https://www.izt-labs.de/press/>

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About IZT

The Innovationszentrum für Telekommunikationstechnik GmbH IZT is a spin-off of the Fraunhofer-Gesellschaft, Germany's leading institution for applied research. Founded in 1997 in Erlangen, the company emanated from the Fraunhofer Institute for Integrated Circuits (IIS). The Innovationszentrum für Telekommunikationstechnik GmbH IZT specializes in the most advanced digital signal processing and field programmable gate array (FPGA) designs in combination with high frequency and microwave technology. The product portfolio includes equipment for signal generation, receivers for signal monitoring and recording, transmitters for digital broadcast, digital radio systems and channel simulators. IZT offers powerful platforms and customized solutions for high signal bandwidth and real-time signal processing applications. The product and project business is managed from the principal office located in Erlangen/Germany. IZT distributes its products worldwide together with international strategic partners. The IZT quality management system is ISO 9001:2015 certified.

the line IZT R5010. The ability of recording RF signals during test drives and reproducing them in the laboratory can significantly reduce time-to market and cost when developing radio receivers. The product portfolio is completed by the IZT T1000 Broadcast Modulator, a compact, price-efficient modulator platform for the broadcast standards DAB and DVB-T/DVB-T2 and up to date radio direction finding technology.

New features for IT-based digital radio head-ends

The IZT DAB/DRM ContentServer incorporates the functionalities of a complete DAB or DRM head-end, including audio encoding, data service handling and multiplexing. „The reliable and long-proven solution is the perfect choice for DAB platform operators and broadcasters“, says Arne Borsum, product manager for IZT ContentServers.

„The latest major revision R7 improves the IZT DAB/DRM ContentServer further, introducing powerful enhancements to the software solution“, says Borsum. New features include an improved audio input interface supporting a variety of audio sources including AES67 (Livewire, Ravenna, Dante), compressed audio streaming via RTP and internet streaming. In addition, a loudness normalizer and level limiter has been introduced. The long-proven web GUI has been refreshed and now includes a graphical system and component status overview.

The software system is either provided as turn-key solution on standard IT or can easily be deployed as virtual machine under VMware in IT data centers.

Further, IZT will demonstrate the IZT DAB Archive, a comprehensive solution for quality control and long-term archiving of DAB multiplexes. The system includes functionality to record and analyze the EDI/ETI signal being delivered to the DAB transmitter network.

RF signal source with enhanced support for broadcast standards

The signal generator platform IZT S1000/IZT S1010 is a flexible RF test source supporting modulation for various communication and broadcast standards including DAB, DRM, HD Radio, CDR, ISDBT, Sirius NGO, Sirius XM and DVB-T/DVB-T2. „The IZT S1000/IZT S1010 incorporates up to 31 virtual signal generators and two independent RF outputs, making it possible to simulate a test environment with multiple simultaneous sources and to replace extensive setups while reducing time and cost“, says Horst Heringklee, product manager for IZT signal generators. In addition, the new IZT T1000 Compact Broadcast Modulator is a compact and price-efficient modulator platform for the broadcast standards DAB and DVB-T/DVB-T2.

Virtual Field Tests

With the IZT's RF Receiver IZT R3000/IZT R4000, the IZT S1000/IZT S1010 signal generator can be used as a Record and Playback System. This enables the developers to perform virtual field tests, for example to build a data base of RF recordings and to reproduce field conditions in the laboratory. At the one side this ensures reproducible testing conditions. At the other side, development time and costs can significantly be optimized as the number of actually required test drives is reduced.



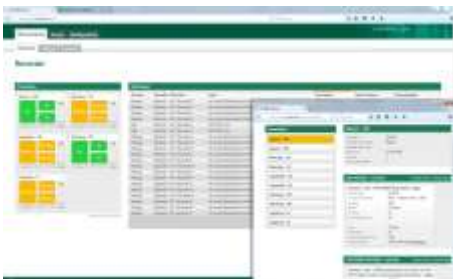
The IZT DAB ContentServer is a powerful system for DAB head-ends, including audio encoding, multiplexing and data service management.



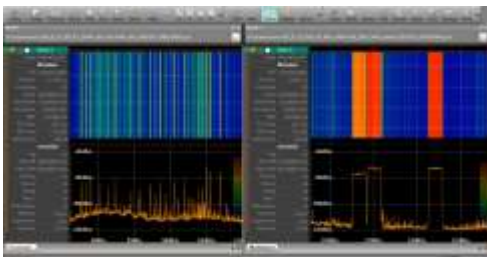
The new major release R7 of the IZT DAB ContentServer includes a graphical system status overview showing clearly arranged current status information and error messages.



The IZT S1010 Signal Generator is a powerful RF test source with integrated data streaming.



The IZT DAB Archive is a comprehensive solution for quality control and long-term archiving of DAB multiplexes



The IZT SignalSuite software enables, among other features, visualization and editing of DAB and FM Signals simultaneously.



The IZT RecPlay system saves costs and enables shorter time-to-market for products.



The IZT R5010 Wide-band Receiver has an instantaneous bandwidth up to 120 MHz and a frequency range up to 6 GHz.