Innovationszentrum Telekommunikations-technik GmbH

Press Release

Erlangen,
April 11, 2008

IZT GmbH: DVB-T/H and HD Radio-Expanded functionality of the IZT S2000 signal generator

The IZT S2000 signal generator is now able to simulate the signals of the digital broadcast standards DVB-T, DVB-H and HD Radio. These new functionalities make the IZT S2000 an even more powerful tool for manufacturers and developers of modern multimedia receivers. Possible devices under test are for example mobile phones with integrated DVB-T/H receivers, mobile TV tuners and HD Radio receivers. The IZT S2000 is successfully used by numerous international companies to develop and to test receivers for SDARS, the North American satellite radio systems Sirius Satellite Radio and XM Satellite Radio.

For DVB-T/H the IZT S2000 offers the complete signal processing chain in real-time: from DVB-H compliant coding over transport stream multiplex, channel coding and modulation to real-time simulation of the signal impairments and propagation effects between transmitter and receiver. The user can test its device via the intuitive graphical user interface, the remote interface or the built-in programmable test scenarios.

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Equipped with the new 'HD Radio waveform' option, the IZT S2000 generates test signals for HD Radio broadcasting both for AM and FM bands. The test vectors are streamed directly from hard drive.

Furthermore, the signal generator is able to simultaneously generate two different standards. Signals for other standards can be produced using the built-in 4 GB deep Arbitrary Waveform Generator. The IZT S2000 simulates signals in real time, which makes it stand out against other test signal sources. To create impairments the IZT S2000 offers various additional features such as AWGN, Profile, Non-linearity, Output Filter Simulation and a fading channel simulator to emulate small scale fading and multipath propagation.

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IZT GmbH 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. IZT focuses on design, development, and manufacturing of commercial products in the field's Radio Monitoring, Test and Measurement and Broadcast. In cooperation with its international distributors, IZT sales state of the art products in the field's high frequency technology and digital signal processing.