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Digital Direction Finding Receiver from IZT with 120MHz Instantaneous Bandwidth

IZT [R4000-DF2](#) covers a frequency range up to 6GHz with 120MHz instantaneous bandwidth and can support two or more receive channels

Erlangen, Germany – August 8, 2011 – IZT, a technology leader in innovative high-performance products for capturing, modifying and generating radio signals, announces its new dual channel digital wideband receiver, which covers a frequency range from 20MHz up to 6GHz with an impressive 120MHz instantaneous bandwidth. The [R4000-DF2](#) features a flexible real-time fast Fourier transform (FFT) processor to save valuable computing time in the customer's direction finding (DF) processing software and to shorten the time needed for scans and signal detection.

Based on the hardware of the new [IZT R4000](#) digital receiver and signal collection system, the new wideband DF receiver features an additional fast, frame-synchronous antenna switch and a calibration source. Customers benefit from the [R4000](#)'s improved dynamic range in high-bandwidth applications, which is perfectly adapted to the need of modern COMINT and ELINT systems, wideband satellite surveillance and continuous broadband radio signal recording.

“To address the most demanding applications, the IZT [R4000-DF2](#) can be easily extended to support more than two channels,” says Rainer Perthold, Managing Director of IZT. “The device offers two 1Gbit Ethernet output interfaces per receive channel and for customers who look for more than 2Gbit output, we offer a 10Gbit option.”

The IZT [R4000-DF2](#) uses powerful FPGA based signal processing to deliver FFT spectra via LAN to the customer's DF processing software. The FFT length of 32,768 provides 5kHz frequency resolution at maximum bandwidth. The devices' gain can be controlled automatically (AGC) or manually in 2dB-steps. Customers can minimize the detection time by using the optional 10 Gbit



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interface. The data format is similar to the [IZT R3000](#) wideband monitoring receiver format, which simplifies the integration into existing DF environments.

The receiver mountable into 19-inch racks and requires 3U rack space per channel.

About IZT

Combining world-class RF frontends with advanced signal processing, IZT develops, manufactures and markets innovative high performance products for capturing, modifying and generating radio signals. The company's product portfolio includes equipment for signal generation, receivers for signal monitoring and recording, transmitters for digital broadcast (DAB), digital radio systems, and channel simulators. IZT offers powerful platforms and customized solutions for high signal bandwidth and real-time signal processing applications.

IZT was founded in 1997 as a spin-off from the Fraunhofer Institute, one of Europe's biggest and most renowned organizations for applied research. Headquartered in Erlangen, Germany, a team of 50 employees manages the company's product and project business. IZT distributes its products worldwide in cooperation with international strategic partners, sales representatives and distributors. For more information, please see www.izt-labs.de.

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