

New IZT Wide-band Receiver with up to 120 MHz

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The IZT R5010 is a wide-band receiver with a frequency range up to 6 GHz, up to 120 MHz instantaneous bandwidth and powerful internal signal processing. Typical applications are COMINT Systems, satellite monitoring, wide-band RF recorders or quality measurements in mobile communication networks.

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More information is available at:

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

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The IZT R5010 uses IZT's latest generation of tuners and builds on the sophisticated receiver series IZT R3000 and IZT R4000. Accordingly, a lot of familiar features of the previous receiver series such as the synchronization of internal clocks to an external source or a built-in GNSS receiver are possible.

IZT R5010 uses latest FPGA technology for signal processing. The receiver offers an instantaneous bandwidth of 60 MHz. Various software options increase the available bandwidth to 80 MHz or 120 MHz.

The IZT R5010's flexible job control allows the user to define complex scan scenarios that will be executed by the receiver. Accurate time stamps allow to calculate the reception time of each sample down to sub-nanosecond accuracy. The output data is provided via UDP/IP as complex I/Q data with embedded metadata. This output enables using the receivers with IZT Signal Suite or integrating the receivers in larger systems with their own software solutions.

Not all use-cases require or even support the continuous streaming of the large bandwidth. Therefore, the IZT R5010 can be equipped with an optional internal RAM buffer.

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