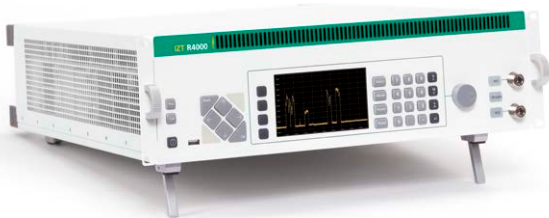
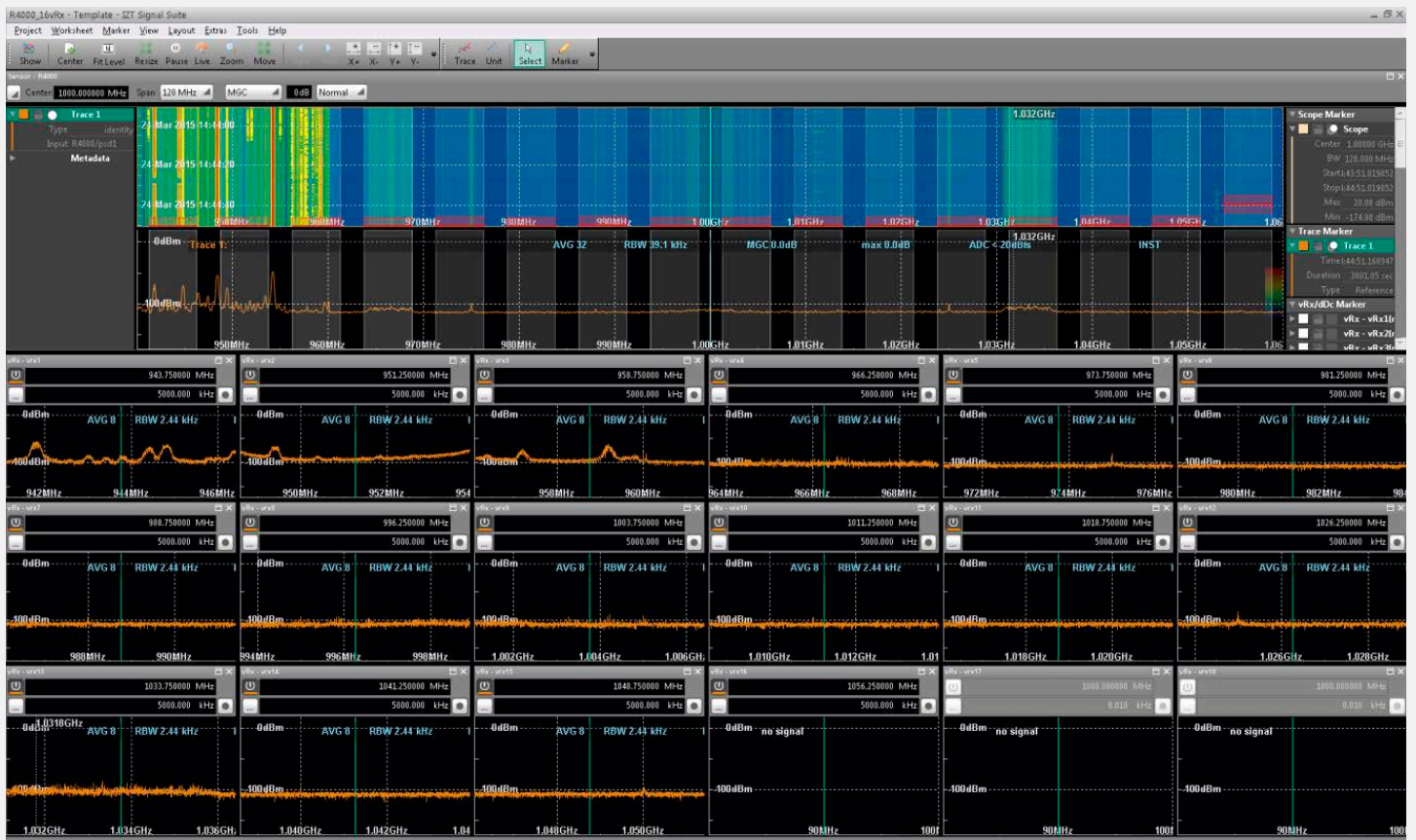


IZT R4000

Broadband, Multichannel RF Signal Acquisition



- One receiver – multiple clients
- More than 100 individual sub-channels
- Up to 120 MHz bandwidth per sub-channel
- Data forwarding via TCP/IP to clients



The Multichannel RF Signal Acquisition system provides a fully integrated solution, specifically designed for computer controlled automatic or manual monitoring of frequencies ranging from VLF frequencies up to microwave. The system is designed to receive and process radio frequencies on multiple wideband channels simultaneously, record digitized signals on the hard disk for easy later retrieval, and forward I/Q data or demodulated signals to customer's clients for individual post-processing.

System integrators and third parties can easily integrate the IZT R4000 into their system software using the IZT Software Development Kit (SDK).

The SDK is part of the IZT Signal Suite software family. It offers different methods to control the IZT R4000 and to access the storage system.

KEY FEATURES

- 120 MHz real-time (instantaneous) bandwidth from a single sensor
- More than 100 individual sub-channels
- Up to 120 MHz bandwidth per sub-channel
- Data forwarding via TCP/IP to clients
- Up to 20 clients for data analysis and post-processing
- High resolution broadband spectrum (PSD) provided from the sensor to the clients
- Variable sample rates at up to 16 megasamples per second, fixed sample rates above
- Robust and continuous streaming to the clients over a TCP/IP connection
- Software Development Kit (SDK) for easy integration into customer systems
- High performance RF frontends from 9 kHz to 18 GHz
- Analog and digital demodulators

INTEGRATION INTO CUSTOMER SYSTEMS

- Via TCP/IP: SCPI commands, I/Q streams transmitted with UDP/TCP connections
- With Microsoft COM Objects: supports C++, C#, Visual Basic and MATLAB
- File based: open IZT V4 file format specification

APPLICATIONS

- Systems for simultaneous manual and automated signal collection
- Satellite monitoring
- Passive radar

BENEFITS

- Many clients can independently share a single high quality sensor
- No loss of dynamic range due to multicouplers or long coax lines from the antenna to the receivers
- Lossless digital transmission of the data via optical LAN allows placing the sensor right at the receive antenna
- Simple and reliable reception of the data in the clients due to usage of TCP/IP
- Use of standard LAN infrastructure

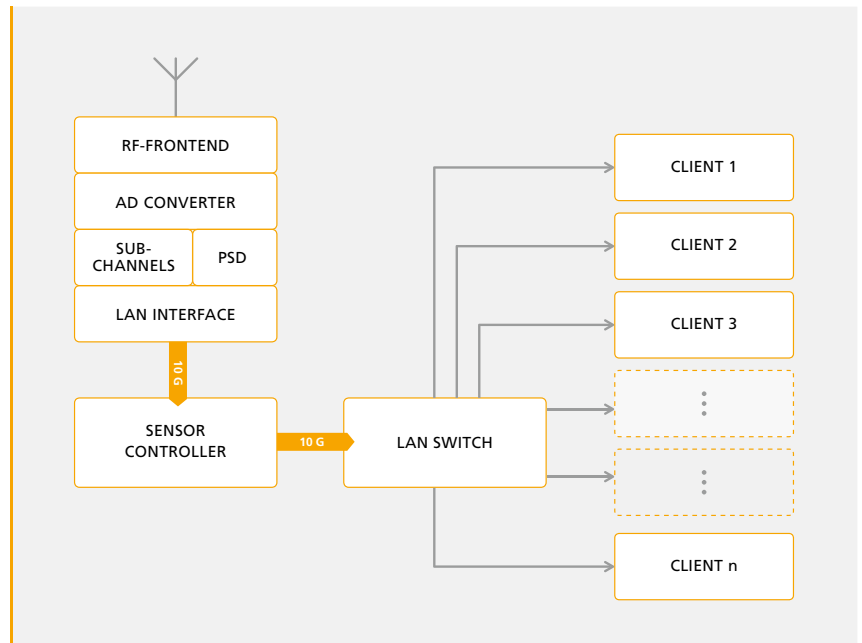


FIGURE 1: MULTICHANNEL RF SIGNAL ACQUISITION AND DATA FORWARDING TO CLIENTS