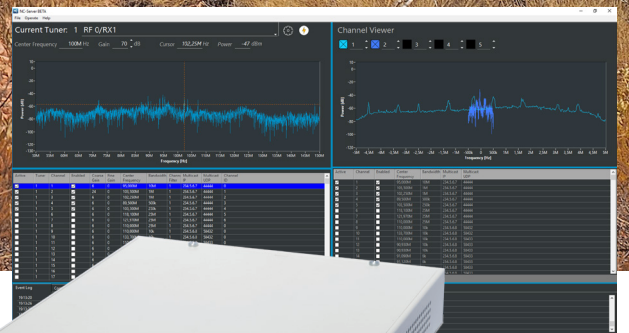


Multichannel Receiver HUGIN 200

REPLACE HUNDREDS of CONVENTIONAL RADIOS



Networked Multichannel Receiver HUGIN 200

HUGIN 200

Small, networked receiver with 256 or 512 radio channels

Small footprint multichannel receiver

HUGIN 200 is Novator Solutions small footprint networked multichannel receiver with 4 independent 80MHz tuners sharing up to 512 individually configurable DDCs. The Server/Client architecture is optimized for real-time performance which continuously streams individual channels in parallel to multiple remote computers & servers. The combination of the large amount of DDCs, analog demodulation and remote operation makes it ideal for listening to hundreds narrowband communication signals at a low cost/signal ratio.

HUGIN 200:

- Frequency range: 10MHz – 6GHz
- 4 individual Tuners with 80MHz instantaneous bandwidth each
- 512 individual digital downconverters (DDC) with IQ data or 256 individual digital downconverters (DDC) with demodulated data
- AM, FM, SSB & CW Demodulation
- Configurable DDC parameters: Center frequency, sample rate, Gain, filter coefficients & IQ data stream or demodulation
- Independent or networked operation with Server Client architecture
- Multicast channel streaming to virtually unlimited remote computer

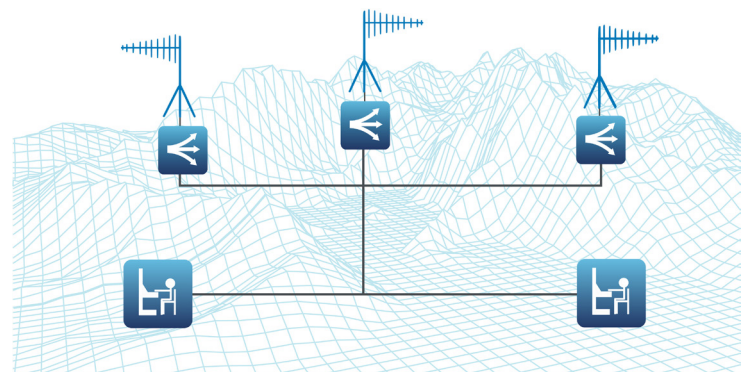


Narrowband Communication

We see a continuously growing number of communication signals in the spectrum. At the same time wireless communication standards are increasingly diverse. Using conventional methods for communication surveillance and spectrum monitoring would increase the cost almost proportionally to the number of signals. New costefficient solutions are needed to effectively monitor the diverse communication signals and to identify RF interferers. HUGIN 200 is the cost effective, yet flexible multichannel receiver solution for narrowband communication surveillance and spectrum monitoring applications.

Applications in focus

Strategic COMINT: The most important goal in strategic COMINT is to gather as much data as possible. HUGIN 200s large amount of individually configurable DDCs, also know as digital drop receivers, give the freedom to capture as many signals as needed while keeping the cost per channel low.



Core Benefits and Features

Applications in focus

Multichannel Telemetry Receiver: Applications like Aero and Industrial turbine testing have a growing need to acquire data from more and more remote sensors to ensure product up-time in mission critical applications. HUGIN 200 provides hundreds of individual channels and real-time demodulation in a single box.

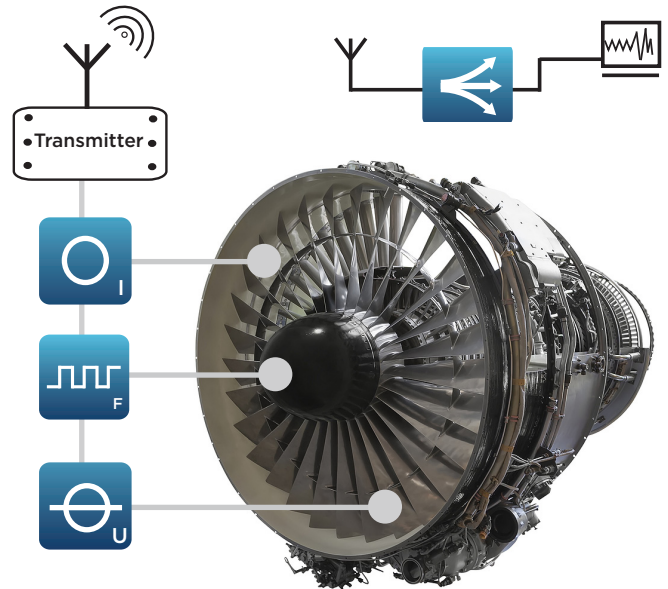
Superior cost per channel

HUGIN 200 is built on COTS hardware from the leading vendor NI with which Novator Solutions has a long-term partnership. The core signal processing technology, enabling an efficient implementation of hundreds of DDCs, comes from RFEL. Thanks to both partnerships combined with Novator Solutions expertise we are able to provide a cost efficient multichannel receiver solution with superior cost per channel performance.

Additional benefits include short lead-times and a high degree of flexibility to configure the DDC channels individually thanks to the novel architecture.

Remote operation

The receiver can be operated independently with a local computer. It also supports out of the box networked operation. Networked operation is ideal when the receiver is placed in remote locations which are difficult to access. Remote operation gives a higher level of freedom to have multiple operators monitoring the signals from various locations. The intuitive API ensures a smooth integration into existing environments such as SANDRA from Combitech or propriety environments.



Flexible tuning

Thanks to the four independent wideband tuners, each with 80MHz instantaneous bandwidth, it is possible to tune in to various regions of interest between 10MHz and 6GHz. This gives a high level of freedom for continuously listening to communication signals over a spread spectrum with a single receiver unit.

Low streaming data rates

In networked COMINT environments the amount of data can quickly become overwhelming to handle. With HUGIN 200 it is possible to optimize the streaming rate to the host computer in several steps. First, it channelizes only the signals of interest which eliminates the need to stream the entire spectrum. Second, the build-in analog demodulation blocks reduce the amount of data further. Combined it reduces the amount of data which needs to be transferred and the processing load on the computer. The result is reduced cost for the infrastructure and simplified data management.

Multichannel Receiver

HUGIN 200

Customized Solutions

On request we are happy to provide customized solutions. The open FPGA architecture combined with our business model help you to get the best possible recording system fulfilling your requirements while keeping the price at an affordable level.

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