WR-G313i

High Performance HF Receiver

- **9 kHz-30 MHz frequency range**
  (optionally extendable to 180 MHz)

- **Software-defined DSP demodulation**

- **Excellent sensitivity**

- **High dynamic range**

- **Continuously adjustable IF bandwidth**

- **Excellent suppression of internal spurii**

- **Real-time spetrum analyzer**

- **Graphical IF shift and notch filter**

- **Noise blanker**

- **Audio and IF recording and playback**

- **Test and measurement facilities**

The WiNRADiO WR-G313i receiver is a software-defined high-performance HF receiver (9 kHz to 30 MHz, optionally extendable to 180 MHz) on a PCI card. The front-end is a DDS-based double-conversion superhet, the last IF stage is implemented in software resident in the on-board DSP.

This receiver is intended for government, military, security, industrial, surveillance, broadcast monitoring, and demanding consumer applications.

The receiver is extremely sensitive, making it possible to comfortably read CW signals well under -130 dBm input levels, yet featuring a respectable 95 dB dynamic range making the receiver resistant to strong signal overload.

The high sensitivity is also matched by that of the S-meter: The calibrated S-meter shows the received signal levels in dBm, µV or S-units, down to the recever noise floor. The IF bandwidth of the receiver is continuously adjustable from 1 Hz to 15 kHz, in 1 Hz steps.

Several WR-G313i receivers can reside in a single PC (as many as there are free PCI slots), which provides an ideal solution for high-performance multi-channel surveillance and monitoring systems.

As the last IF and demodulation processing are entirely software-defined, this means that additional demodulation or decoding modes can be easily added by a mere software change.

Apart from the antenna and audio leads, there are no other interface or power supplies cables - no clutter on your desk.

Every modern desktop computer can be converted into a powerful HF monitoring station with minimum fuss.

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