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Simple SDR Receiver Introduction: This document describes the installation, how to operate, and theory of operation of the Simple Circuits Inc. Simple SDR HF radio receiver operating in the 3.5 to 18 MHz range. The receiver architecture is based on software defined radio techniques and incorporates a Cypress PSoC

2122ms → 113ms ×18.7 speedup Mark Borgerding, "Turning Overlap-Save into a Multiband Mixing, Downsampling Filter Bank", IEEE Signal Processing Magazine, March 2006 Various other things

Simple RTL-SDR Shielding with Copper Tape

The SdR receiver of the other Ham receives the HF signal on a frequencial band located on both sides (LSB and USB) of the HF central carrier. This HF band is transformed in an AF band, by a heterodyne process. After conversion in digital, the initial AF signal is extracted from the received BF band.

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Simple SDR Radios. The Simple Circuits "Simple SDR Receiver" is a software designed radio receiver covering 3.5 to 18 MHz and built around a Cypress PSoC3 device. A paper describing the design was presented at the Tucson Amateur Packet Radio annual Digital Communications Conference held in September 2010. The paper is available on the TAPR website.

Michael Hightower, KF6SJ

Episode 62 Part 3: Designing the Mercury SDR Receiver (TAPR 2008 DCC)

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accomplished by the receiver USB port appearing as a standard com port to the PC. The Ham Radio Deluxe (HRD) program works perfectly to control this receiver. The basic SDR receiver: A common

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Control of the receiver is accomplished by having the receiver USB port appear as a standard com port to the PC. The Ham Radio Deluxe (HRD) program works perfectly to control this receiver. See Figure 1. This SDR receiver is built using a quadrature sampling detector, as shown in the block diagram of Figure 2.

A simple crystal-controlled SDR like the Softrock Lite may be connected to the IF of a conventional receiver or transceiver to give a panoramic SDR display and all the other features of SDR. HSDR and rig are connected by CAT so that either may be tuned, they both move together.

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Some Applications of SDR 1. Local radio (of course). • From Headless (computer GUI) to Full-knobbed box. 2. Remote radio. • Internet transceiver, spectrum display (graphics compression). • Reverse Beacon Network (RBN) receiver / CW skimmer (many / all bands simultaneously). 3. Ionospheric Echo Sounding. • Passive or Active sounding. 4.

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software-defined radio (SDR) performs, try a Frequency Measuring Test (FMT).1 FMTs are conducted in April and November by amateurs transmitting with equipment that can generate very accurate and very stable signals. You don't need special equipment to participate in an FMT. You can use a superheterodyne receiver, as described

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Simple SDR transceiver

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Putting Your SDR to the Test - American Radio Relay League

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Simple MC3362 superhetrodyne SDR receiver

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RTL-SDR Dongle - TAPR

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