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## **A Simple Sdr Receiver Tapr**

A Simple SDR Receiver. Michael Hightower, KF6SJ 13620 White Rock Station Road Poway, CA 92064 858-592-0555 [mike@simplecircuits.com](mailto:mike@simplecircuits.com).

Abstract: This article discusses the design and operation of an HF radio receiver operating in the 3.5 to 18 MHz

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range. The receiver architecture is based on software defined radio techniques and incorporates a Cypress PSoC CY8C3866 component that contains both analog and digital circuits, thus decreasing the receiver's component count.

## **A Simple SDR Receiver - TAPR**

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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.

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## **Simple Radios - Simple Circuits**

By Scotty Cowling, WA2DFI.

TangerineSDR's roots extend back to the 2018 ARRL/TAPR DCC in Albuquerque, NM. At that conference, the HamSCI[1] community asked for TAPR's help in developing a Software Defined Radio that they could use to collect



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ionospheric and other data. This radio, dubbed the Personal Space Weather Station (PSWS), needed particular capabilities, such as very accurate time ...

### **Introducing the TAPR TangerineSDR - TAPR**

SDR Web Servers • SDR server allows

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client(s) to access your SDR over local network or Internet. • Many packages available providing varying functionality. Most usually fit into one of two basic groupings: 1. Many clients, many narrowband streams. Each client statically sets frequency of their own narrowband receiver, or 2.

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## **SDR from DC to (almost) Daylight - TAPR**

Simple SDR Receiver. 6 abril, 2012 por DobleZero. ... The receiver architecture is based on software defined radio techniques and incorporates a Cypress PSoC CY8C3866 device that contains both analog and digital circuits, thus decreasing the receiver's component

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count. This part is far more than just a microcomputer; it also contains software ...

### **Simple SDR Receiver - Radioaficion**

However, the receiver can also receive, in the inferior pass band (LSB), a parasitic signal which will be supposed equal to  $\text{Cos}((\omega_0 - \omega_2).t)$ . The goal will be

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to eliminate it. Consequently, in the pass band of the receiver input, there is the composite signal:  $\cos((\omega_0 + \omega_1)t - M) + \cos((\omega_0 - \omega_2)t)$  The SdR receiver diagram is the following :

### **HOW DOES AN SDR TRANSCEIVER WORK? - TAPR**

Tracking Receiver The approach chosen

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for reception was to use a small USB dongle of the RTL-SDR type. This small receiver consists of a tuning chip (Rafael r820T2), a processing chip (Realtek rtk2832U), and support electronics to run on 5 V. We were unable to obtain details of the specific encoding used by these tags. Various methods of

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## **Tracking Wildlife with Software Defined Radio in ... - TAPR**

The TangerineSDR is a Modular Software Defined Radio Project with the following objectives: Development of SDR radios that allow experimentation in a variety of radio modes. Provide support to unaffiliated other groups that need these radios to support their mission.

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## **TAPR TangerineSDR Project**

The project implements some hardware devices for cheap SDR receivers based on Realtek RTL2832U controller. What is SDR? Software-defined radio (SDR) is a radio communication system where components that have been traditionally implemented in hardware (e.g. mixers,



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filters, amplifiers, modulators/demodulators, detectors, etc.) are instead implemented by means of software on a personal computer ...

### **GitHub - IgrikXD/Easy-SDR: Creating affordable, easy-to ...**

The August 2020 issue #145 of TAPR's quarterly newsletter is now available

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here and from the TAPR website Library.  
The contents of the PSR #145 is as follows: Virtual ARRL/TAPR DCC, Sept. 11-12 TAPR at QSO Today Virtual Ham Expo TAPR Directors Election Donate to TAPR TAPR and COVID-19 multi-TCC: A Multi-Channel Timestamping Counter TAPR at Hamcation TAPR Wear Available...

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## **TAPR - Tomorrow's Ham Radio Technology Today**

Designing the Mercury SDR Receiver recorded at TAPR 2008. The whole series is about three hours, but they are absolutely worth watching. Phil Harman VK6APH wrote the software for the groundbreaking Mercury Software

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Defined Radio receiver, the first ham radio SDR receiver to digitize a wide RF stream basically at the antenna connector and do ...

## **SDR | Amateur Radio - PEØSAT**

The project is a Simple SDR (software defined radio), which was published in the WIA's magazine "Amateur Radio",

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volume 79, issues 9 & 10 2011. Titled "The Simple SDR: a basic software defined radio anyone can build" by Peter Parker VK3YE.

## **VK5TM Simple SDR**

RTL-SDR V3 (or upconverter, or other HF & Linux capable SDR) Raspberry Pi 3 (or other SBC with similar performance)

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Internet connection; Band filter (optional but recommended) HF antenna (this could be as simple as a long wire)

Examples of QRP Receivers with an RTL-SDR Monitoring FT8, JT9, JT65 and WSPR simultaneously with an RTL-SDR V3 and Pi 3

**Tutorial - [rtl-sdr.com](http://rtl-sdr.com)**

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125. 40m SDR receiver UAI. UAI é um receptor SDR UAI. UAI a simple SDR rx.  
126. 40m SDR transceiver UAISOH. UAI SOH é um receptor SDR UAI ! UAISOH a simple SDR rx.  
127. 81MHz DDS AD9851 Module. Com o modulo do Ebayt. With Ebay AD9851 Module .  
128. ARARINHA6. TRX SSB 5 bandas 160m a 20m . 5 band ssb cw trx from 160m to 20m .  
129.

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Cheap ...

## **QRP Homebrew receivers, transceivers, transmitters**

Simple SDR Receiver. The Ham Radio. Deluxe (HRD) program works perfectly to control this receiver. See Figure 1. Theory of Operation. This SDR receiver is built using a quadra- ture ... [Learn More.](#)



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... Tucson Amateur Packet Radio.  
07/17/2012. Tucson Amateur Packet  
Radio (TAPR) is now ... Learn More.  
Surfin': Tricks Are for Hams. Jun 15, 2012  
...

### **National Association for Amateur Radio Website Search**

Simple SDR Receiver Looking for some

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hardware to learn about SDR? This project may be just what you need to explore this hot topic! This article describes the design and the theory of operation of an 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

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## **Michael Hightower, KF6SJ**

As I understand it, one limitation of repeating (at least for simple analog stuff) is that the transmit frequency has to be in the same chunk of bandwidth the receiver is on. So for example it is trivial to repeat 90.5 FM on 101.7 FM. But you can't put your output at

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433MHz, because that is further away than the 60MHz receiver bandwidth will ...

### **Using a LimeSDR as a Simple 4G Repeater - [rtl-sdr.com](http://rtl-sdr.com)**

Portable, standalone SDR transceiver for SSB, CW and AM using embedded digital signal processing with a Softrock as the

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RF front end for QRP operation. Live bandscope, high-performance T-R switching, multiple VFOs & memories, General Coverage Receive and bandswitching control are among the many advanced features.

### **SDR Cube Transceiver**

GQRX is a free simple to use SDR

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receiver which runs on Linux and Mac systems. It is similar to SDR# in terms of features and simplicity of use. GQRX comes with a standard FFT spectrum and waterfall display and a number of common filter settings.

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