



This custom NooElec SDR is a modified DVB-T USB dongle tuned for SDR usage, including upgraded crystal, capacitors and inductors compared to generic devices. Full compatibility with a large array of software packages, such as [MATLAB®](#), HDSDR, SDR Touch, SDR#, Planeplotter--too many to list.

[MathWorks®](#) and NooElec™ have coordinated to bring [MATLAB®](#) support for our SDR receivers. The RTL-SDR radio support package enables you to design wireless receivers using real world signals. Using Communications System Toolbox™ in conjunction with an RTL-SDR USB radio, you can design and prototype systems that process real-time wireless signals in [MATLAB®](#) and Simulink®

Wireless engineers, students, and hobbyists can learn to receive and decode real-world radio signals using this low cost RTL-SDR hardware connected to your computer.

The perfect device for learning software defined radio, on the cheap. Amateur radio, ADS-B, police & fire scanning, trunking, satellite images--you name it, this little guy can probably do it. Outperforms many devices 10x its cost!

These units are based on the R820 (R820T) tuner IC made by Rafael Micro. As such, they have a frequency capability of approximately 25MHz-1750MHz, though this can vary somewhat from unit to unit. There is also an RTL2832 (RTL2832U) IC on board of course, which acts as the demodulator and USB interface.

The connector type on the antenna and USB board is MCX--male MCX on the antenna, female MCX on the SDR. There are plenty of adapter and adapter cables available in our store if you want to connect your favourite antenna!

Want HF too? You can modify the dongle for HF reception, but it's really a bad way of doing things. If you would like to do this please contact us and we'll be happy to walk you through it. However, we strongly recommend you take a look at the up converter available in the link above which will let you listen all the way down to 100kHz or lower with impeccable sensitivity

Reviews:

It works as described. I am listening to CB channel 6 27.085 MHz AM and receives well. Shipped on time as described. I added a long wire for low band reception on CB. Just unscrew the antenna from the base and attach a wire to the brass fitting and screw the antenna back to its base to keep connection. Good temporary antenna. FM broadcast had noise over strong signals in HDSDR and in SDR# it would crash in WFM mode. That is not the fault of Nooelec it is a software issue. Because I think it works well I gave it 5/5 rating. Thanks Nooelec this is a great toy indeed!!!(Posted on 3/6/2014)