## Arduino VFO by Gary VK8BN

### Additional notes from the author

The attached photo is of a typical AD9850 DDS module the output is the centre pin on the right hand connector, the pins each side of the centre pin is Gnd.

I guess I assumed people playing with the DDS module would have downloaded the specs for the particular module they were playing with, however in retrospect I should have indicated it on the circuit.

Yes the note on the circuit diagram for the channel oscillator is input to the Codan from the DDS module. I have mounted a BNC on the rear panel of the Codan and used a short length of coax from the DDS module.

Software is also available at my website ***http://vk8bn.me/info/arduino***/

The sideband selection is simply a toggle switch on A5 of the Arduino not a momentary switch. The Software handles the rest.

I am not sure if I mentioned the output of the DDS can go all the way down to Audio as low as 1 HZ and if using the AD9851 module all the way up to 70 MHz.

Quite a reasonable Audio oscillator and if followed with an AD811 chip output of +10 dBm. The only problem with the AD811 is it requires both a Positive and Negative supply rail.

**File names:**

The initial archive has named the files: AR14052-AD9851\_etc…

Arduino Sketch files need to be separated with an underscore for the Arduino IDE to be happy….: e.g AR14052\_AD9850\_etc..

**File error in Codan file**

OOPs I have just downloaded the code from the WIA website and have noticed a small issue in the Codan file.

This line of code must be like this for the first time you run the program to activate the EPROM memory.

int ForceFreq = 1; // Change this to 0 after you upload and run a working sketch to activate the EEPROM memory. YOU MUST PUT THIS BACK TO 0 AND UPLOAD THE SKETCH AGAIN AFTER STARTING FREQUENCY IS SET!

The file originally submitted has this already set to 0

int ForceFreq = 0; // Change this to 0 after you upload and run a working sketch to activate the EEPROM memory. YOU MUST PUT THIS BACK TO 0 AND UPLOAD THE SKETCH AGAIN AFTER STARTING FREQUENCY IS SET!

After you have a working sketch you can then set to Zero to allow the last used frequency to be remembered.

The version at ***www.vk8bn.me/info/arduino*** is set correctly for initial startup.

My apologies

Gary