AD9850 Type I to Type II Adapter Board

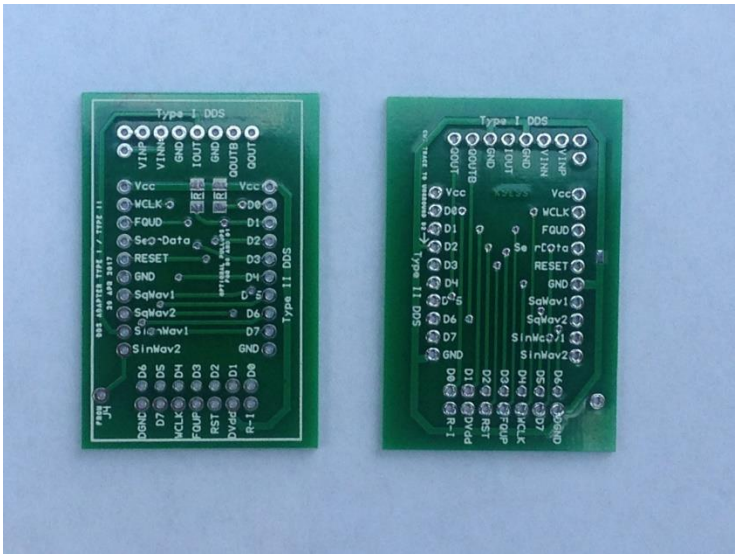
When populated with the proper headers and or sockets this board will adapt an AD9850 Type I DDS board to fit in the place of a Type II DDS. When properly configured it will work in reverse as well.

Here are the two types of AD9850 boards. There is some disagreement between web sites as to which board is Type I and which is Type II. The designations shown below apply to the adapter board.

Type I Type II

The Type I has a double row of seven pins on one end and a single row of seven pins on the other end. The Type II has a single row of ten pins on each side.

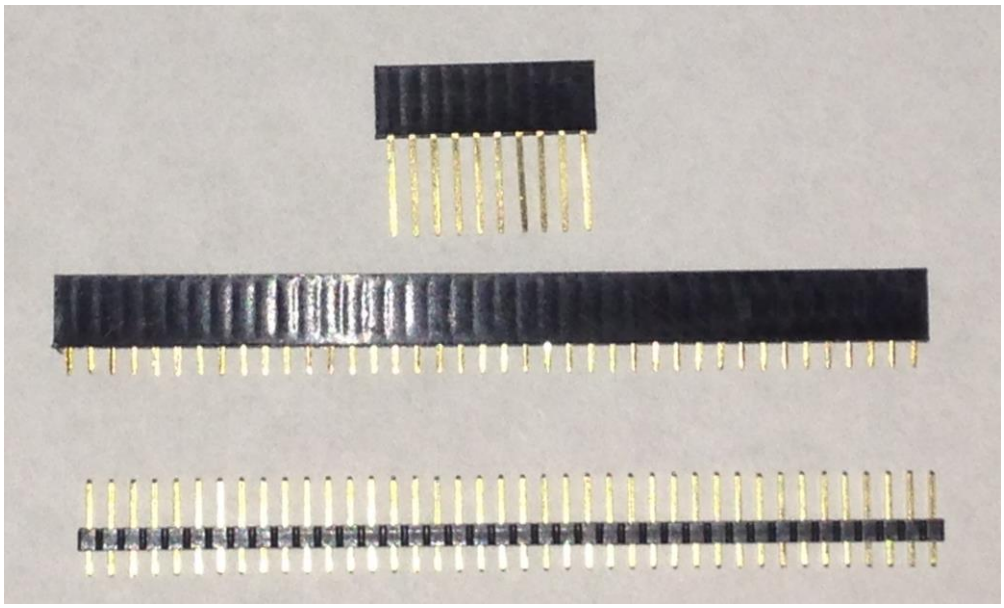
This is the adapter board:



In the picture above the left view shows two locations for SMD resistors. They are not needed. These are intended to be used only if the AD9850 board does not have pullup resistors on the D0 and D1 pins of the ‘9850.

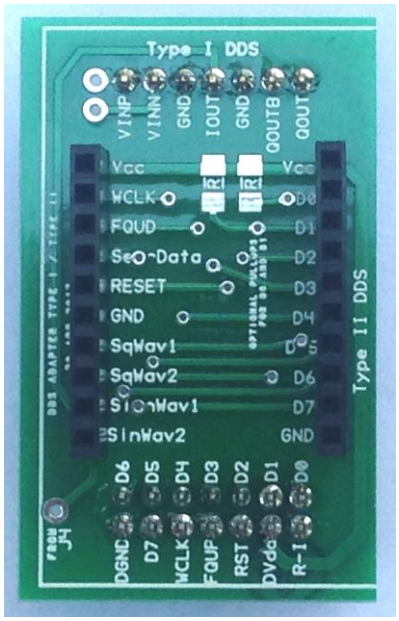
All ‘9850 boards that I’ve seen have these already implemented on the board. Serial programming of the ‘9850 requires D0 and D1 to be pulled high with D2 grounded. Serial input is then applied to D7.

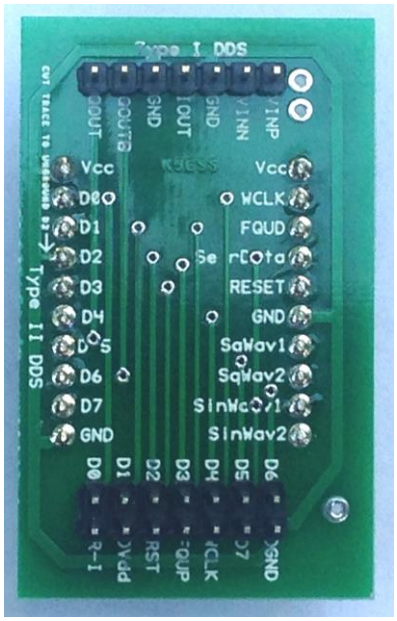
You will need both male and female headers. Examples shown below:



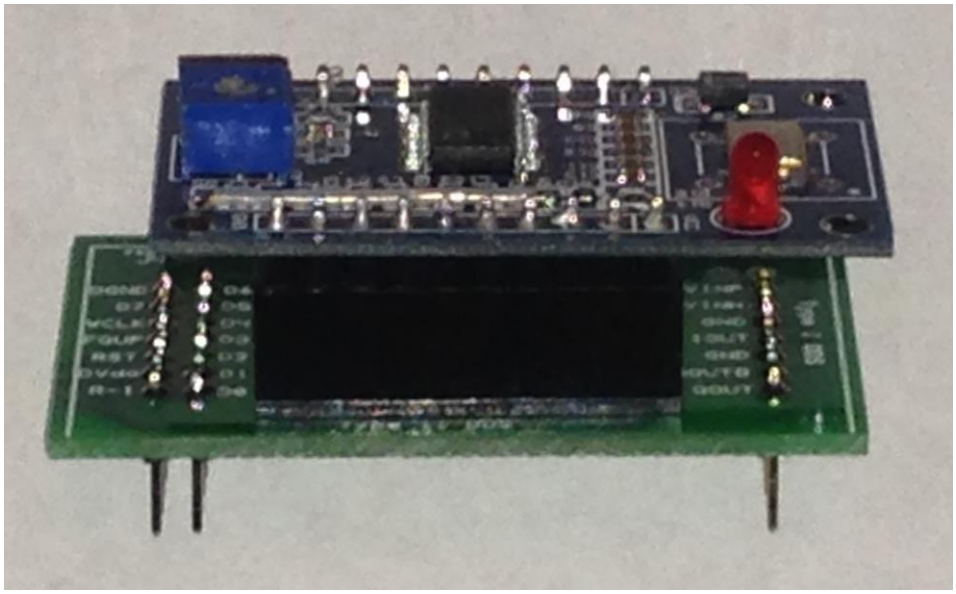
You will need to cut three pieces of the male header stock to a length of seven pins and two pieces of the female header stock to a length of ten pins.

Solder the headers to the adapter board as shown below insuring that the male and female headers are attached to the correct side as shown.





Here is a picture of the adapter board with a Type II AD9850 board installed.



And here it's shown installed on a W8TEE PKAA antenna analyzer.