

# USB DDS HF Generator

## Updated software

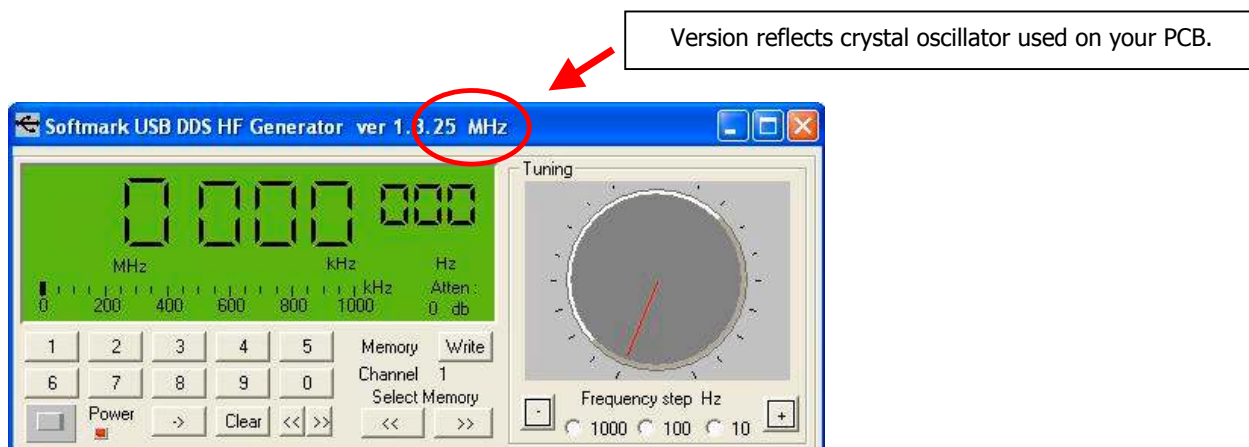
Ver 1.3. XX MHz

If your Softmark USB DDS HF Generator module uses the AD9850 IC and the 125 MHz crystal oscillator, a software update is not required. If, however, your module uses the AD9851 IC and a different crystal oscillator (for example, see Figure 1 below) please read this document updating you on a new version of the software.



**Figure 1.** The module with an AD9851 IC and a 25 MHz crystal oscillator.

The AD9850 IC and 125 MHz crystal oscillator have been used in the USB DDS HF Generator module. A new version of the module has been released recently, with new software (version 1.3.XX MHz). In this new module, we use the AD9851 IC and a crystal oscillator whose value is multiplied internally (by a factor of 6). For example, if you have on your board a 25 MHz crystal oscillator, you will need to run the new software (ver 1.3.25 MHz, see Figure 2 below).



**Figure 2.** Software to run a module with a 25 MHz crystal oscillator.

On the installation CD for the new software, you can find files which support the crystal oscillator used on your board. Currently, we support 25 MHz and 40 MHz crystal oscillators.

**Note:** setup software is required and is the same as for the modules with the AD9850 IC. If the IC is not AD9850 and the crystal oscillator is not 125 MHz, you have to execute the updated software (as shown in Figure 2 above). You can also change your crystal oscillator, e.g. 25 MHz, and use the new software ver (1.3.25 MHz). If your crystal oscillator will be different, e.g. 40 MHz, please run the new software accordingly.

If you have more questions, please contact Softmark ([softmark@ar.com.au](mailto:softmark@ar.com.au)).