



## 2100 Quick-Start Instructions

The 2100 Downconverter module requires no special preparation and is ready to use. Just apply 6Vdc @ ~410mA using the supplied power cable (red +, black -). When power is applied and within the correct voltage range, a green LED will be visible shining through the label near the 2<sup>nd</sup> LO port.

### User Supplied Local Oscillators:

Two local oscillators are required. Apply 1274MHz to the 1<sup>st</sup> LO input port and 131MHz to the 2<sup>nd</sup> LO port. The LO power should be set to 0dBm. Connect the receiver to the IF output port. This will provide a 15MHz IF out with 1420MHz input.

### Valon 5009 Local Oscillator:

In order to program your desired frequencies or change any other settings you will need to download the **Configuration Manager** graphical user interface (GUI) program at:

<http://valontechnology.com/5009users/5009.htm>.

You should also download the Operations Manual at the same site location.

### Step 1: Power Supply Connection

You are going to need a 6Vdc  $\pm 0.5V$  at 600mA power supply. Use the supplied red-black Hirose cable to connect to your power supply. Connect it and you should see two blue LEDs illuminating through the label just below the Source 1 and Source 2 label markings. Your 5009 will now be set to 2440MHz on Source 1 and 2480MHz on Source 2.

### Step 2: USB connection

Connect the provided USB cable to your 5009 and host computer. Your computer should recognize it as a new FTDI Virtual Com Port. If you have trouble, then it is likely you do not have the correct VCP (virtual com port) driver. (Download FTDI CDM v2.12.00 WHQL Certified.zip from the link below, unzip and run).

### Step 3: Terminal Program

You will need a terminal program to change your 5009 settings. Just about any terminal program will work. We have provided **5000term.zip**. Unzip and running 5009term.exe will automatically find the correct Virtual Com Port. If you use a different terminal program, your port settings are 9600, 8, None, 1, None.

### Step 4: Synthesizer Settings

If you ordered the 5009 with the 2100 the synthesizer will be ready to go with Source 1 set to 1274MHz and Source 2 set to 131MHz. Both will be set to an attenuation level of 15 which will provide the necessary 0dBm output.

Consult the **Valon 5009 Operations Manual** for more information on the use of these commands.

For the latest 5009 Downloads: <http://www.valontechnology.com/5009users/5009.htm>

Questions? Email [support@valontechnology.com](mailto:support@valontechnology.com)

