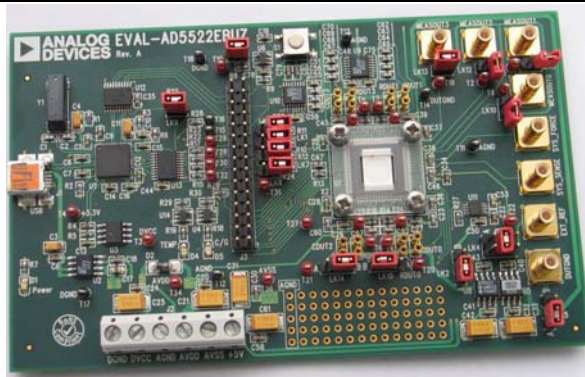




1. Install the Software

- The software should self install after CD-ROM is inserted.
- If software installation does not launch, then run "setup.exe" from CR-ROM. This will install the relevant USB drivers and software to your pc.
- Software should be installed prior to connection of the eval board to the PC's USB port to ensure the evaluation board is correctly recognized by the PC.
- All software, documentation and config files will be copied to C:\Program Files\Analog Devices\AD5522 by default.



EVAL-AD5522EBU2

2. Plug in the hardware

- Using the USB cable, connect the EVAL-AD5522 to the computer.

- You will be prompted to install the USB drivers. The software should find these drivers automatically. You may be required to re-start your pc after the install, but only if prompted.

3. UnPlug the hardware and Apply power supplies.

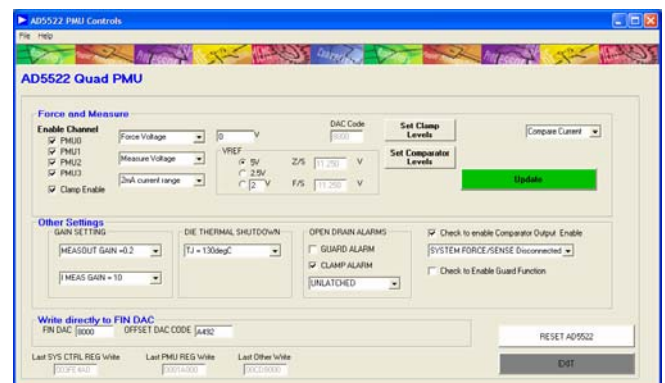
- Now you are ready to use the AD5522 board.
- Disconnect the USB cable (Power rails should always be applied prior to USB cable).
- Apply appropriate power supplies
 - AVDD = +15V
 - AVSS = -15V
 - DVCC = +5V
 - +5V = +5V
 - AGND = DGND = 0V
- Now connect the USB cable again, now you are ready to launch software.

4. Running the Chip Programming Software.

- Browse to the Analog Devices folder in your Start menu. Go to the AD5522 folder and select the Evaluation software to launch the programming tool.

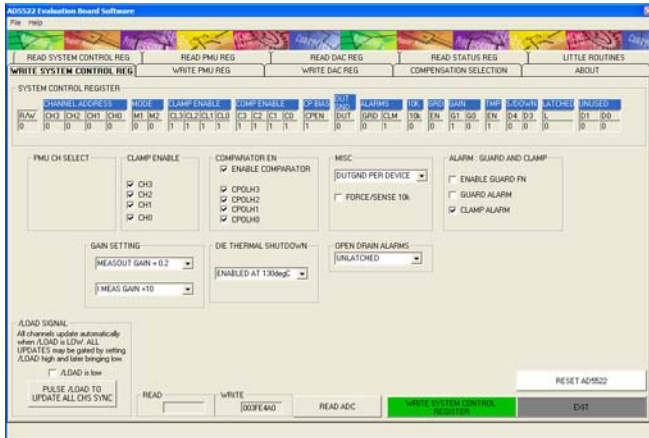
5. Verifying you are communicating with the Hardware

- When the software launches, the following window will be opened:



AD5522 Quick Start Guide

- In addition, at File->Individual Register Access launches the control panel that allows direct access to all the registers within the AD5522. This can be used in conjunction with the main control window for control of the device.



Individual Register Access

- By default, when the software launches, it writes two commands to the AD5522 to put it into a standard operating mode. These commands are 0x3FE4A0 to System Control register and 0xF21B300 to PMU Register.
- This will initialize the device and if you read the voltages at gold pin connections TP 5, 6, 7, and 8 on each channel, you should read 0V (as the FIN DAC is at default setting, 0x8000)

6. Proper sequence of USB/Power Supplies/Software:

- A) Apply power supplies
- B) Connect USB
- C) Launch Software