Steps of SigmaStudio programming eeprom

1. Install the relative SigmaStudio software according to the system version, such as 64-bit WIN10, we choose ADI-SigmaStudio-Rel3.15-x64.exe, insert the USBI after installation, the system will install the driver itself, and it can be found in the device manager. See the following equipment


2. Connect the USBI communication line to the CN2 interface of the ADAU1452-DSP development board according to the USBI interface definition. If SPI is used, all 5 lines need to be connected. If I2C is used, just connect GND/SCL/SDA. Then power on the ADAU1452—DSP board. Generally, there is a self-starting program burned in at the factory.
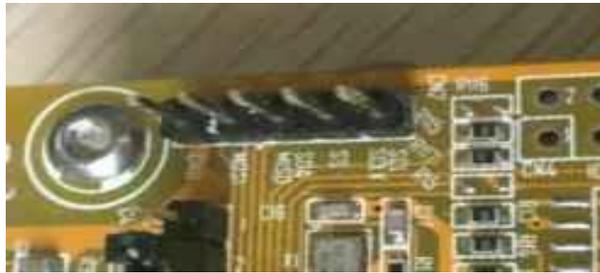
Press S3 and it will change. Corresponding! Connect the audio source and headphones, you should be able to hear the sound.

3. Open the routine ADAU1452 to demonstrate the frequency division by 2, click on config, you can see that the USB is green or orange, indicating that the USBI is connected
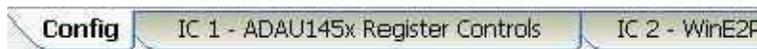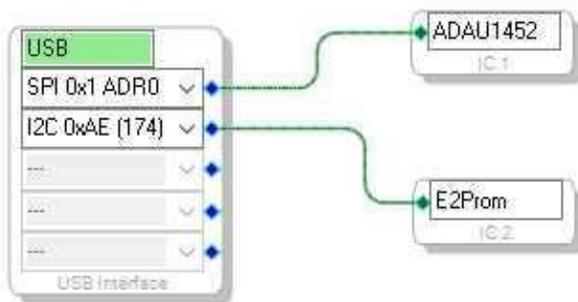

4 Choose SPI or I2C according to the communication method of the connection. Let's take SPI as an example. Press F7 at this time, and a confirmation box may pop up for the first time. Click OK and press F7 again, then ADAU1452 will be controlled by the software, we click schematic , Pull the total volume fader in the design interface to control the output volume. Of course, if we don't know the current input signal source channel, we can press the S3 switch on the board and turn on the potentiometer to the maximum. This is actually caused by For software processing, the details will not be described in detail. If you don't want to see the schematic

diagram or interface definition, you can communicate by private message or telephone. In this way, we have basically gotten the communication.

5. Continue with the previous step. At this time, the program is actually downloaded temporarily into the ADU1452. When we re-power on, the program will return to the factory state. Then we need to burn the program to the board. Next time you use it offline, please follow the steps below.

6. Press F7 to make sure that your program is OK and the control is normal, then the SIP1 jumper cap of the hardware PCB board is jumpered to end 12, and the computer software end clicks config to enter the configuration page, right-click ADAU1452 according to the figure below, and select Erase in the pop-up menu Option, follow the prompts, go through the progress bar step by step, and the automatic erasing is complete
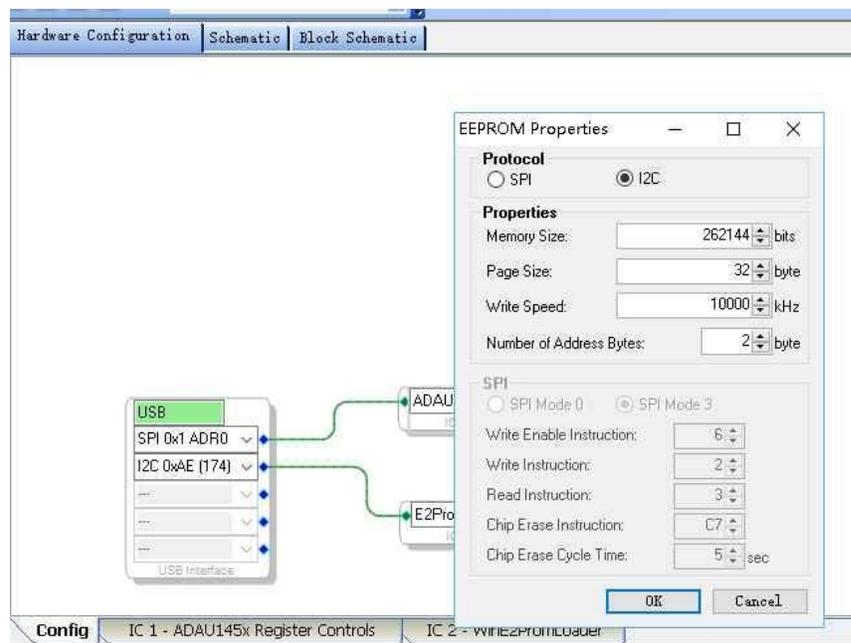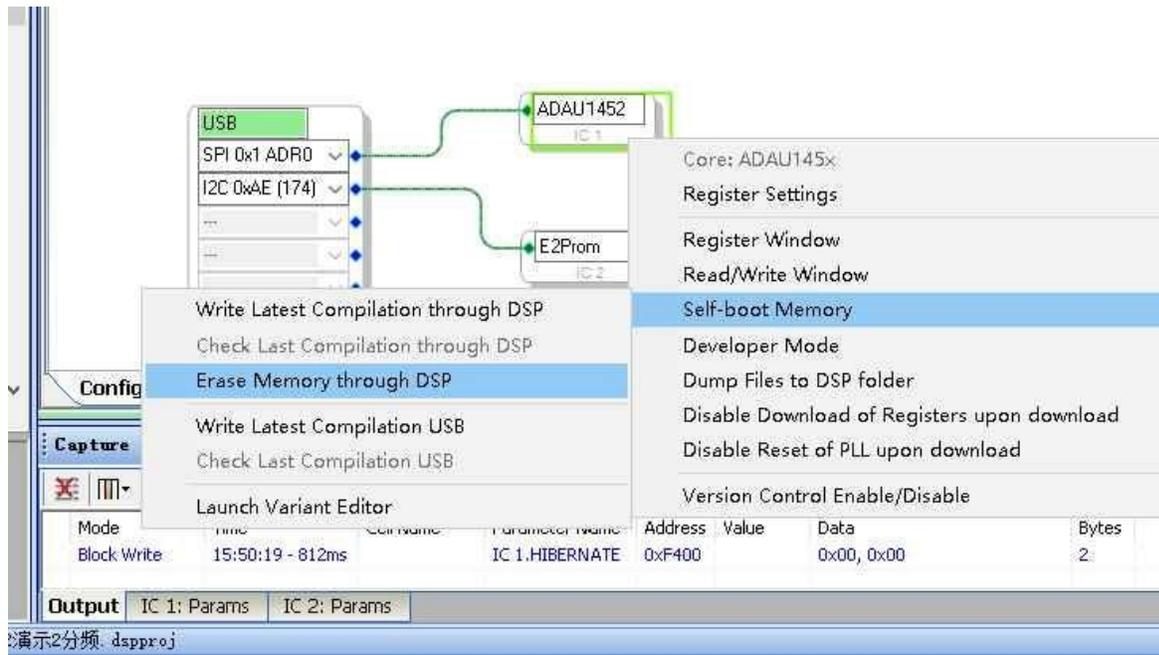
7. After the erase is successful, press F7 again to ensure that your program is OK and the control is normal. Keep the SIP1 jumper cap of the hardware PCB board at the 12 end. Click config on the computer software end to enter the configuration page, and right-click ADAU1452 as shown in the figure below. Select the write option in the pop-up menu, and follow the prompts to finish the progress bar step by step, and the burning is completed automatically.
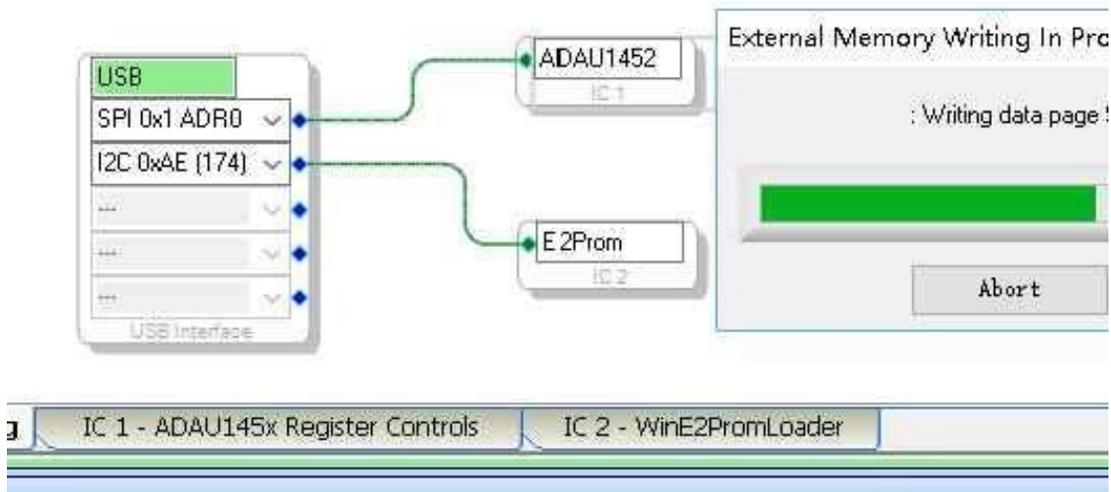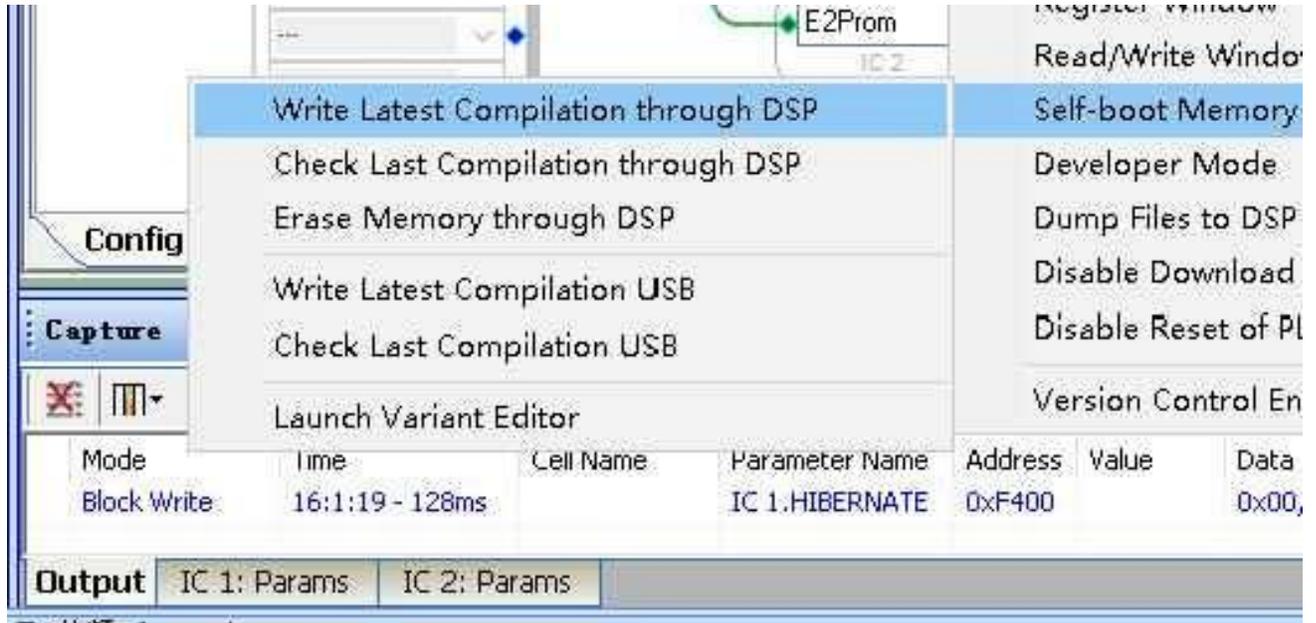
8. Power on and restart, remember that SIP1 returns to its normal state, that is, terminal 23, and it is your own program that is running at this time