# ISL6423B Quick Start Guide

1. Download and install the ISLUSBI2CKIT1Z evaluation board GUI from http://www.intersil.com/products/deviceinfo.asp?pn=ISL6423B.

2. Attach one end of the USB cable to the ISLUSBI2CKIT1Z board and the other side goes to the computer.

3. Attach the 4-pin connector, which came with the evaluation board, between the ISLUSB2I2CEVAL2Z board and the ISL6423BEVAL2Z evaluation board (see Figure 1).

4. Apply 12V to VIN and GND post.

5. In Windows Explorer go to C:\Program Files\Intersil\LNB Controller Interface and click on the "usb2i2c.exe". The computer screen should display the program as shown in Figure 2.

6. Under Device Select, choose ISL6423/6423B and it should display as shown in Figure 3.
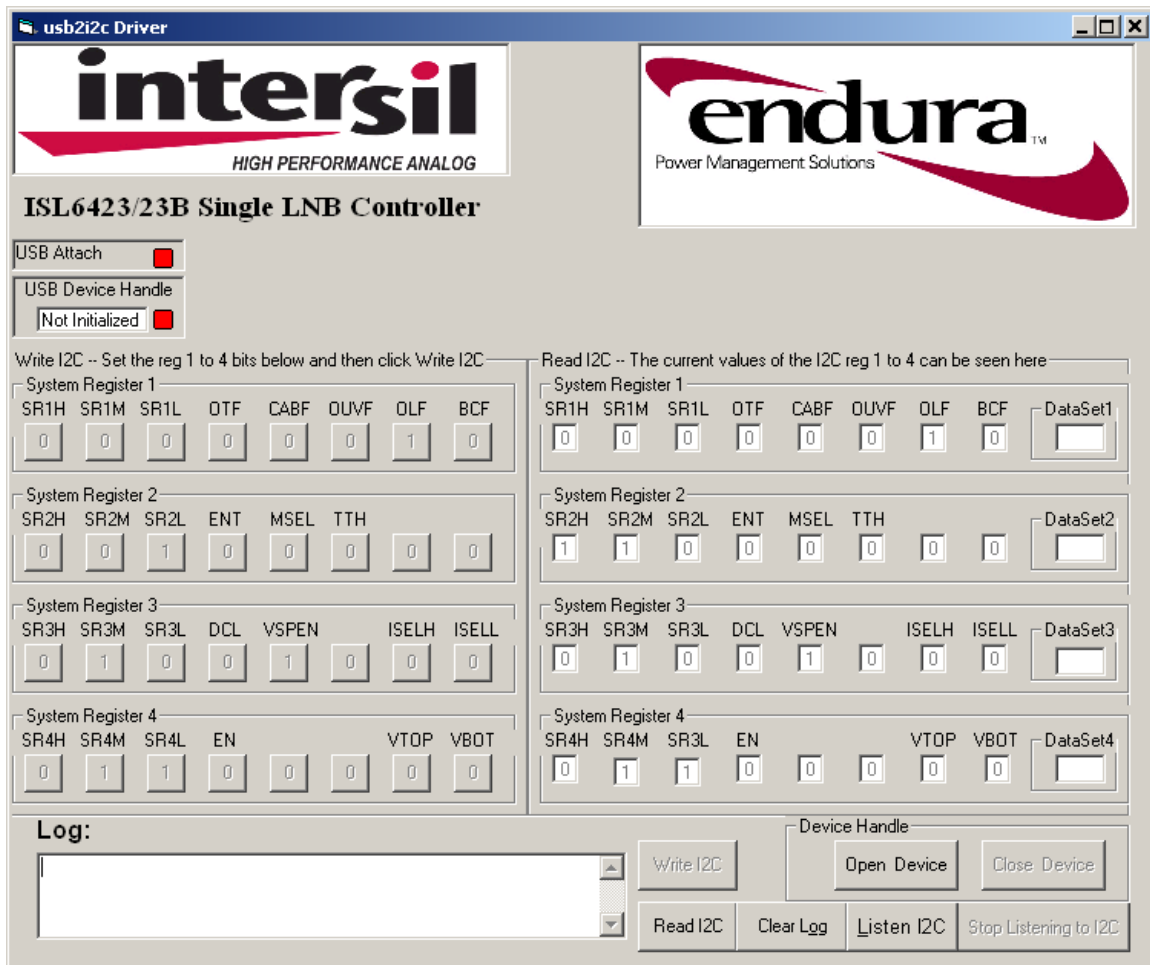


**FIGURE 1.**



**FIGURE 2.**

**FIGURE 3.**

7. Jumpers JP1, JP2, and JP3 are inserted, whereas JP4 is open, which provides a logic high signal to the SELVTOP pin for controlling the output voltage. Consult the ISL6423, ISL6423B data sheets for additional information.

8. Click on Open Device and the 'USB Attach' and 'USB Device Handle' buttons in the top left should turn green.

9. To enable the ISL6423, ISL6423B, toggle the EN bit on System Register 4 to '1', at which point the evaluation board should read approximately 13.3V between VLNB and GND post.

10. For additional programming features on the ISL6423, ISL6423B evaluation board, please consult the ISL6423, ISL6423B data sheets under $I^2C$ register settings.

11. For accurate noise and tone measurement, please insert the scope probe in the SP1 connector on the evaluation board. Figure 4 shows the ISL6423, ISL6423B tone at 500mA of resistive load current from $12V_{IN}$ when the output voltage is programmed for 13.3V.
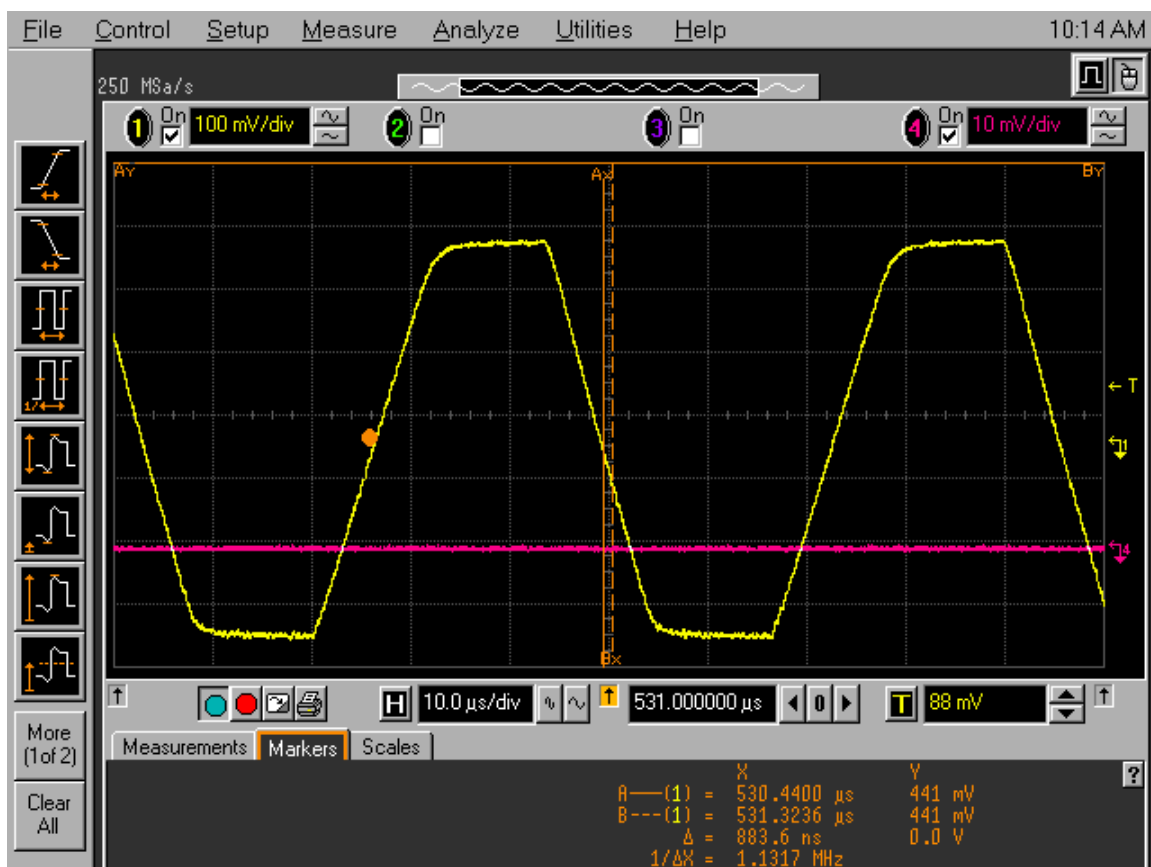
**FIGURE 4.**

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# Evaluation Board Schematic