TPS65988EVM Application Customization with Aardvark Guide

1. Plug a barrel jack power source into the barrel jack connector (J1) on the TPS 65988EVM, as shown in Figure 1.

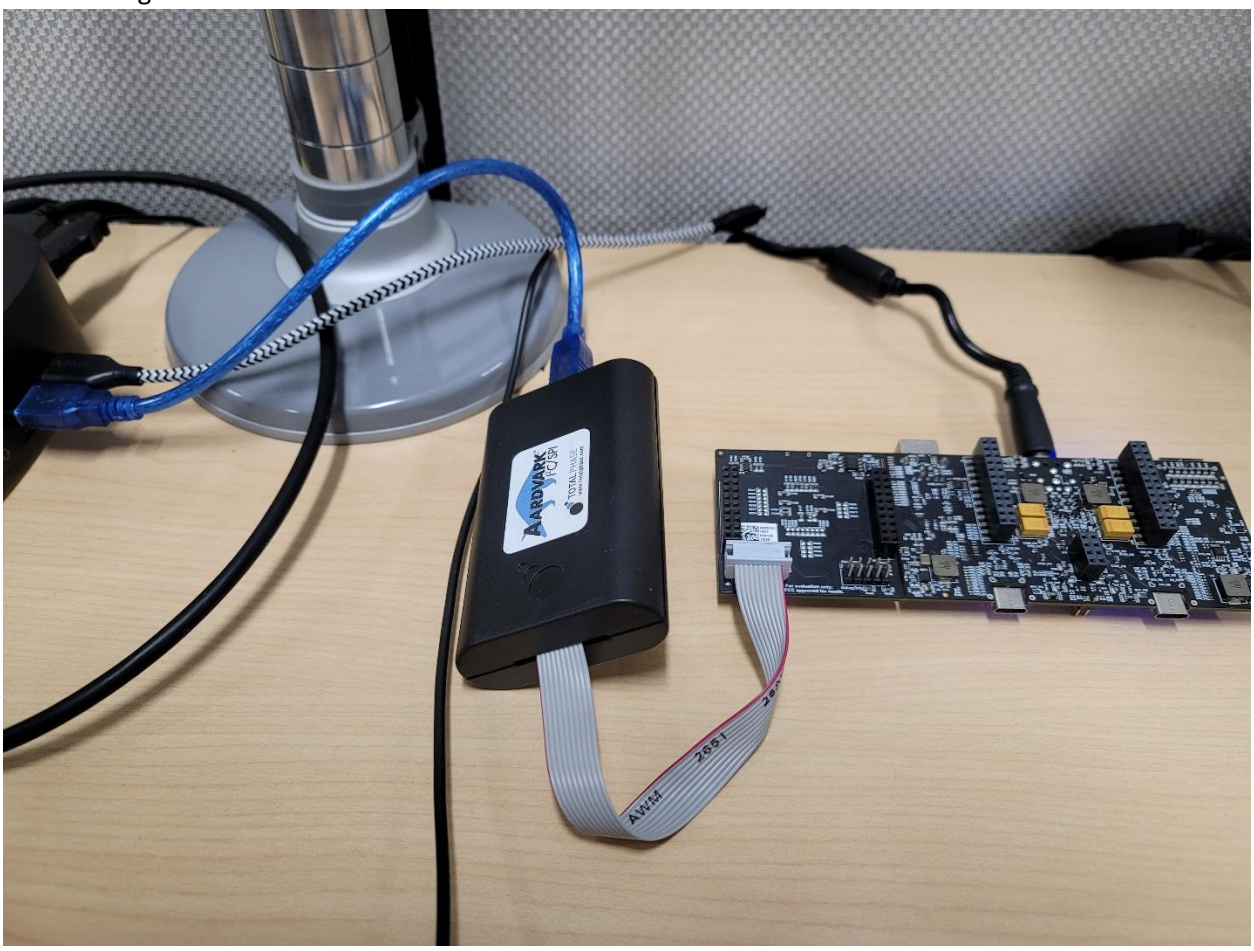

Figure 1: EVM Setup with Aardvark Adapter

2. Plug in Aardvark I2C/SPI adaptor ribbon cable into TPS65988EVM Aardvark Connector (J10), oriented as in the picture.
3. Plug the Aardvark I2C/SPI USB-A cable end into your computer's USB port.
4. Open the Application Customization GUI.
5. Select your project either with "New Project" or "Load Project", under the "Project" tab on the top ribbon of the GUI.
6. Select the "Adapter" tab and click "Configure I2C/SPI Adapter Settings" from the dropdown.
7. Change the "USB to I2C/SPI Adapter:" field value to "Aardvark".
8. Ensure a value populates for "Adapter Instance:".
9. Click "Sweep I2C address range for device response". Figure 2 shows a successful sweep.

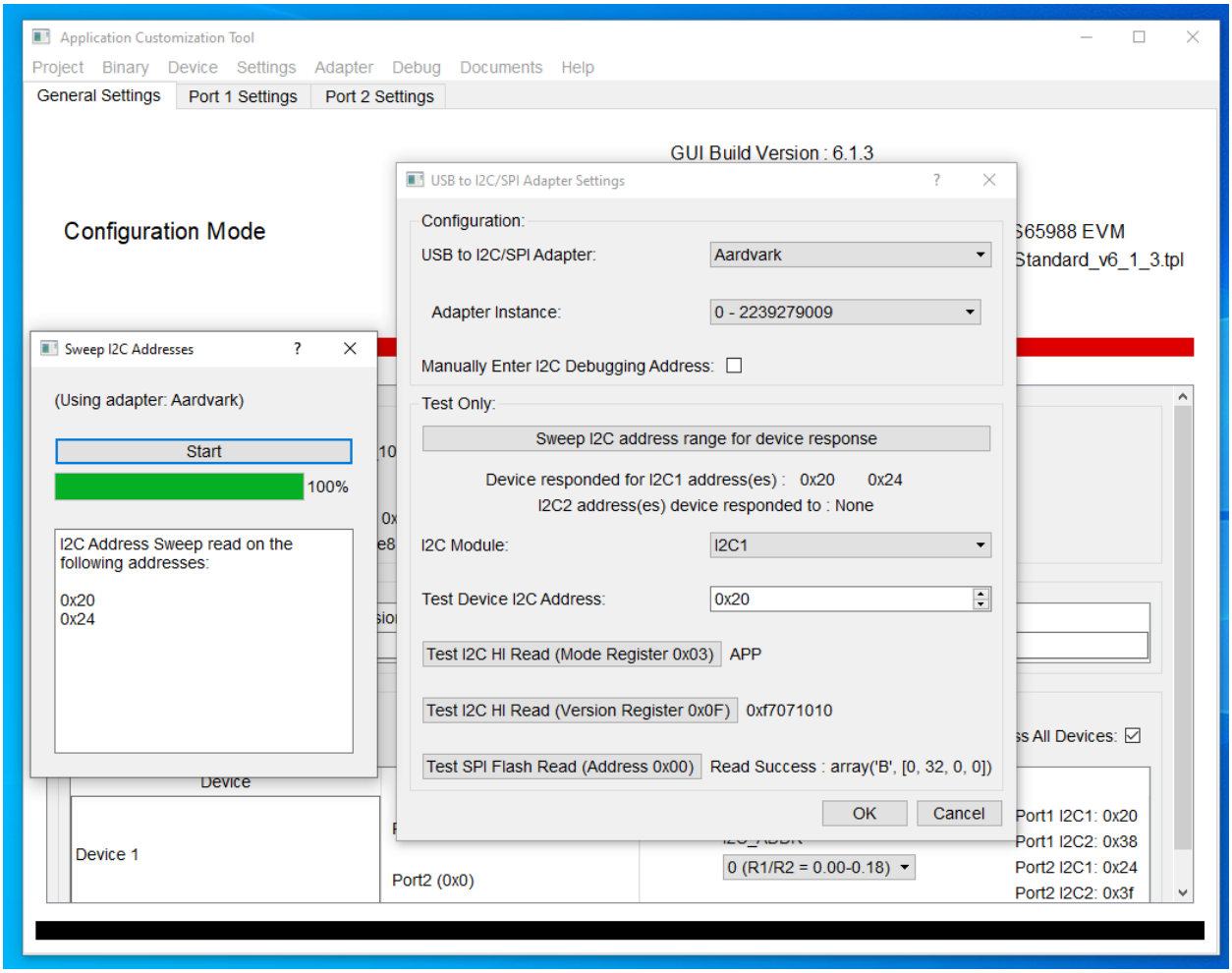

Figure 2: Successful I2C Address Sweep using Aardvark

10. Once you have configured your desired settings in the GUI, select the “Binary” tab from the top ribbon and “Flash From Current Project” (unless you wish to flash from a different method in the dropdown).
11. In the popup window that appears, “Aardvark” should be the populated value for “USB to SPI Adapter”, as shown in Figure 3.
12. Select “Read Current Region Offsets:”.
13. Select “OK”.

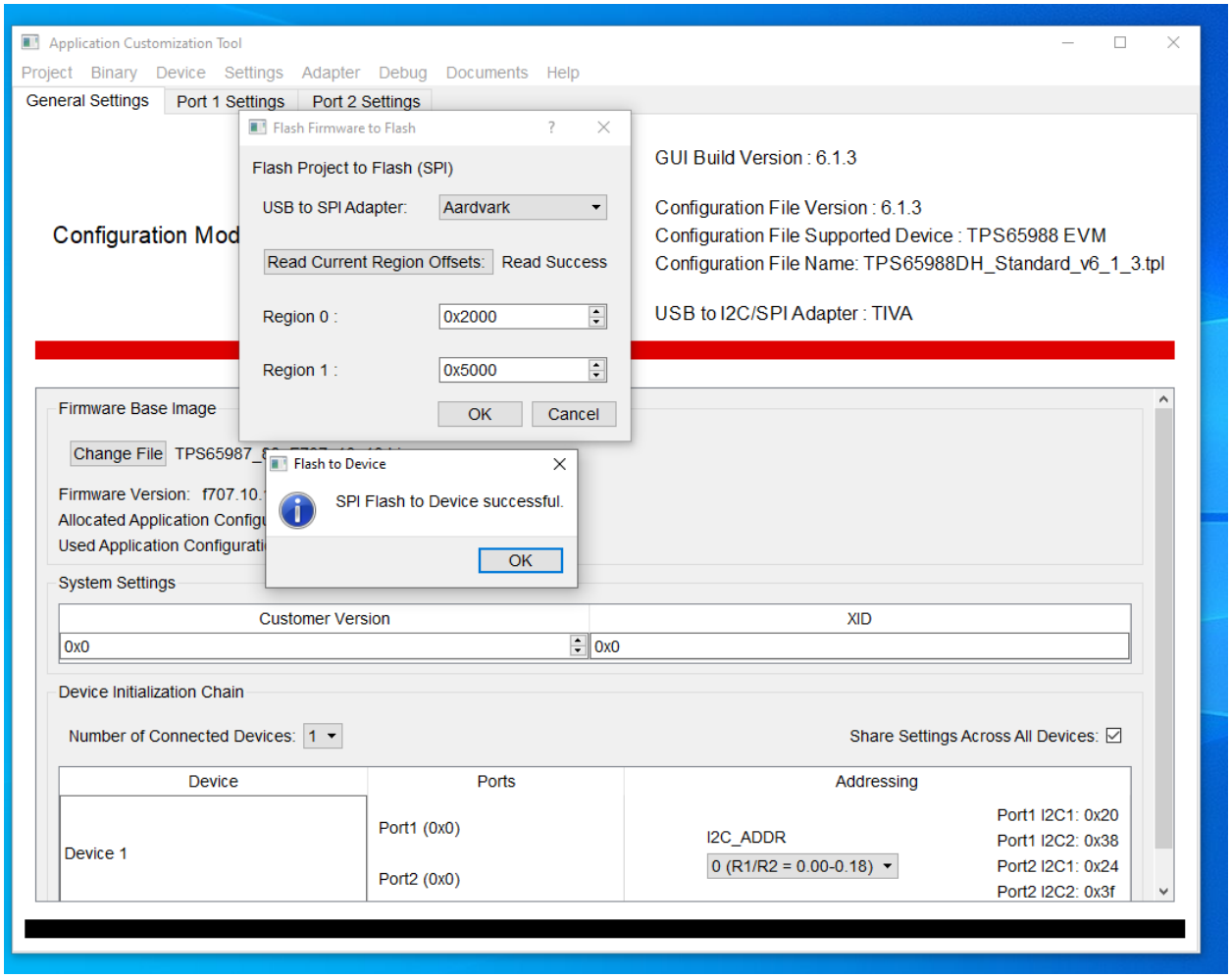

Figure 3: Successful Region Offset Read and SPI Flash to Device

14. If successful, you should see a popup that says “SPI Flash to Device successful.”, as shown in Figure 3.
15. Repeat steps 6 – 9.
16. Select “Test I2C HI Read (Version Register 0x0F)”. You should see the version of firmware you flashed now populate.