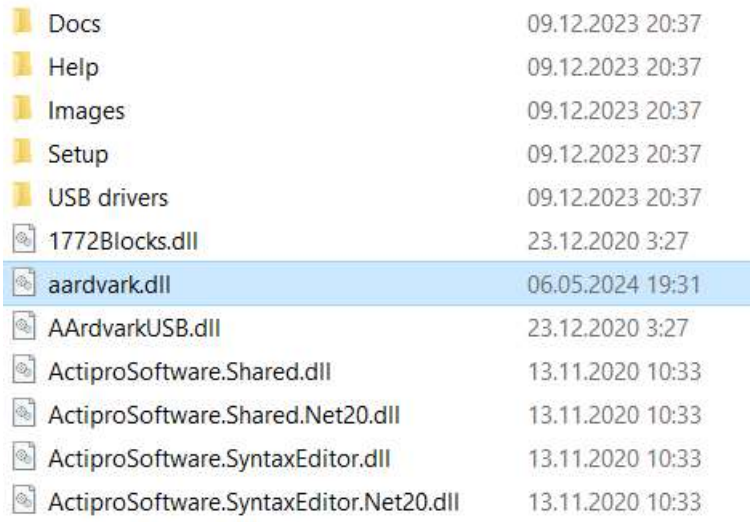
Using York with SigmaStudio

1. Put Aardvark.dll from York software package to the same folder with SigmaStudio installation:

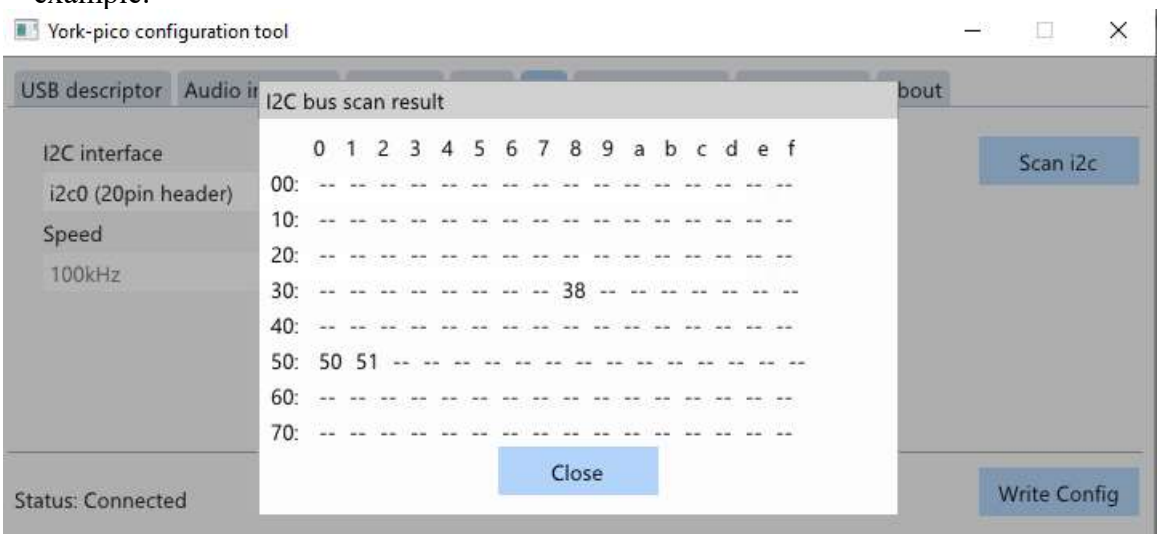


   There is already file with such name. Replace it.

2. Connect York I2C lines (pins SDA and SCL) to the DSP

3. Check the connection using config tool.

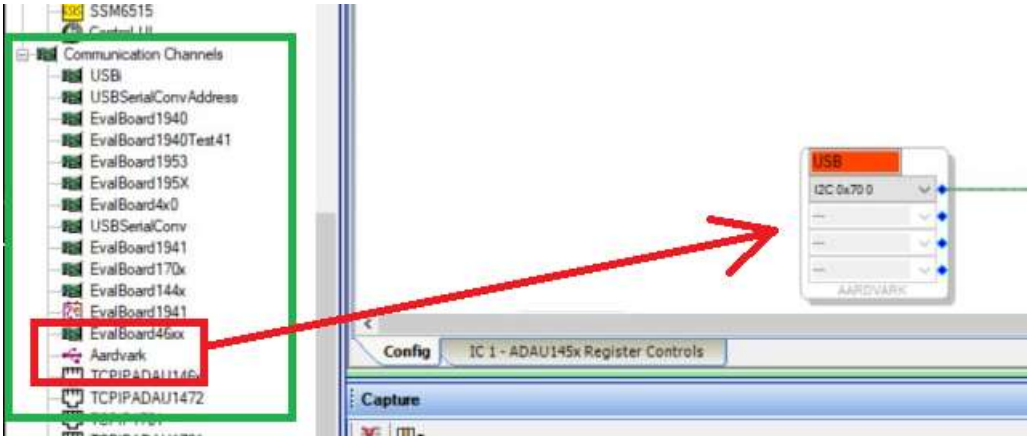
   Go to I2C tab and click 'scan i2c'. If ADAU connected correctly, it should be detected, for example:



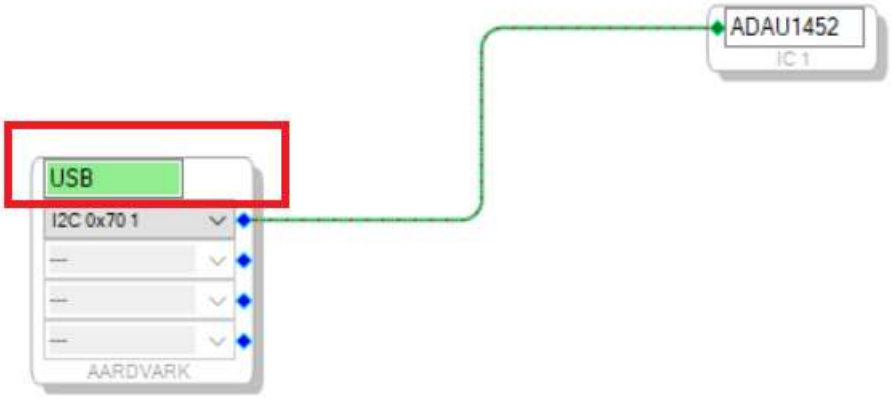
   0x38 is 7-bit address of ADAU1452.

   SigmaStudio uses 8-bit addresses, so it corresponds to 0x70

4. In SigmaStudio project connect ADAU DSP to Aardvark interface instance:



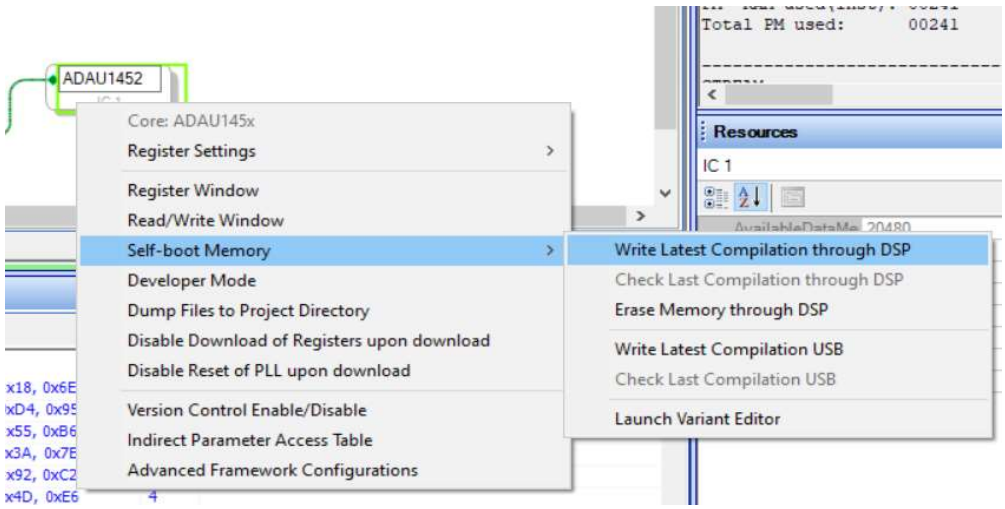
When York is connected, the label on Aardvark instance should become green:



Make sure that correct address of the DSP is selected (in this example – I2C, 0x70)

5. Use York to load/read settings from DSP as usual.

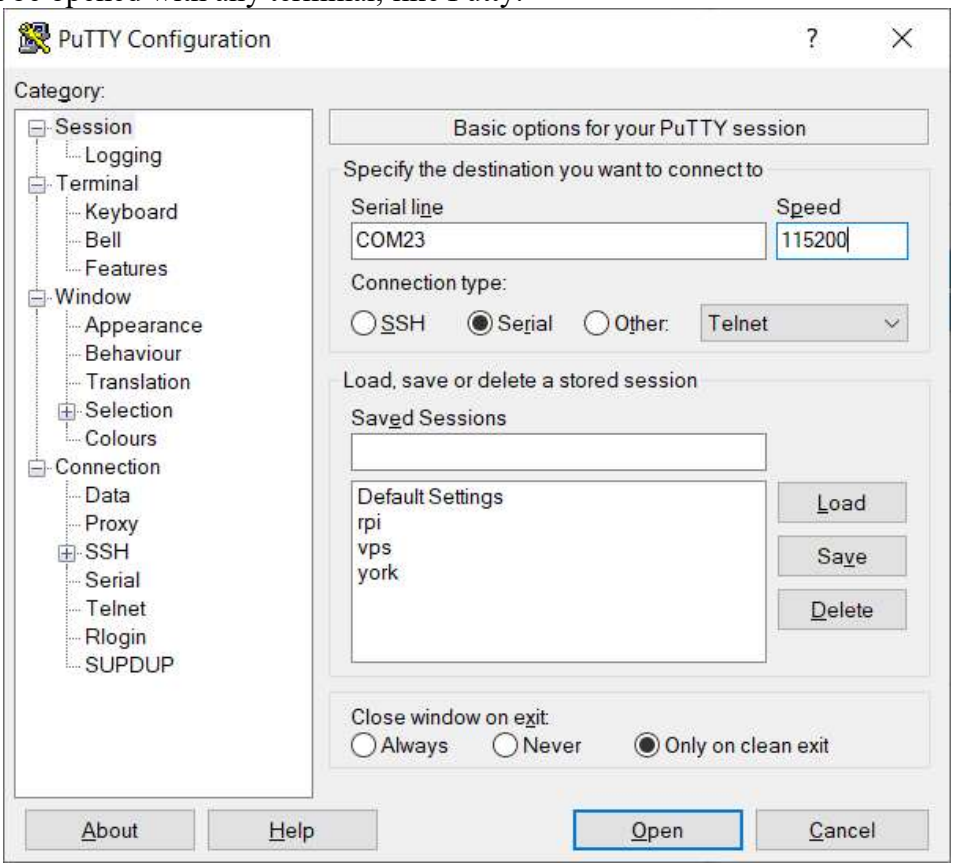
   For self-boot SPI memory programming use programming through DSP:



Virtual COM port

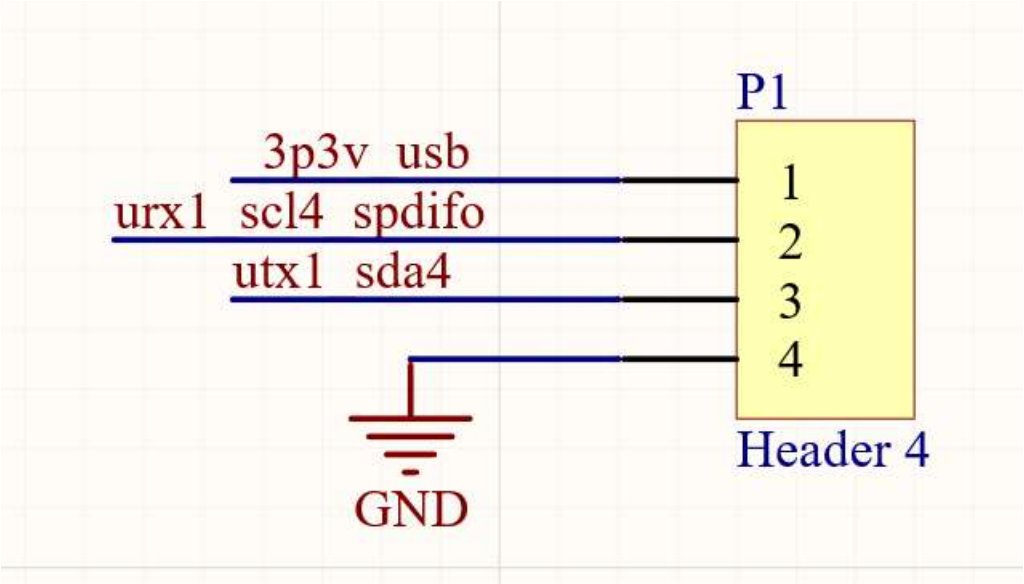
York has an optional feature of virtual COM port (VCP) which can be enabled in the config tool:

If enabled, after connection to PC York will show up as Audio + VCP in device manager.
This port can be opened with any terminal, like Putty:



In this configuration York will act as USB<->UART bridge (and audio streaming device at the same time), similar to devices like FT232.

UART lines will be available on the 4 pin header:



Pin 2 – RX, Pin 3 – TX.

This function can be used to communicate with SBC thru serial terminal or to program devices like ESP32.