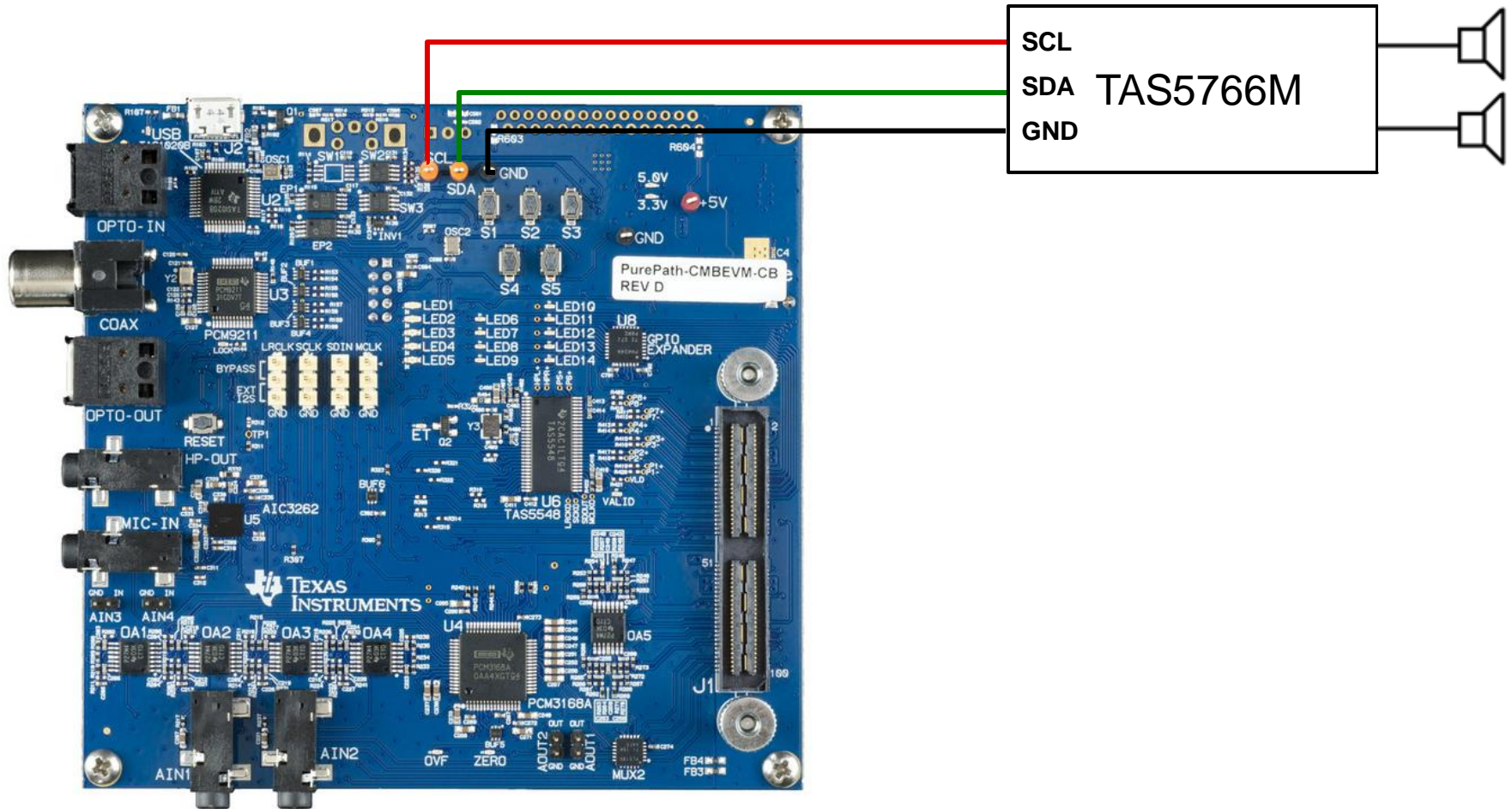


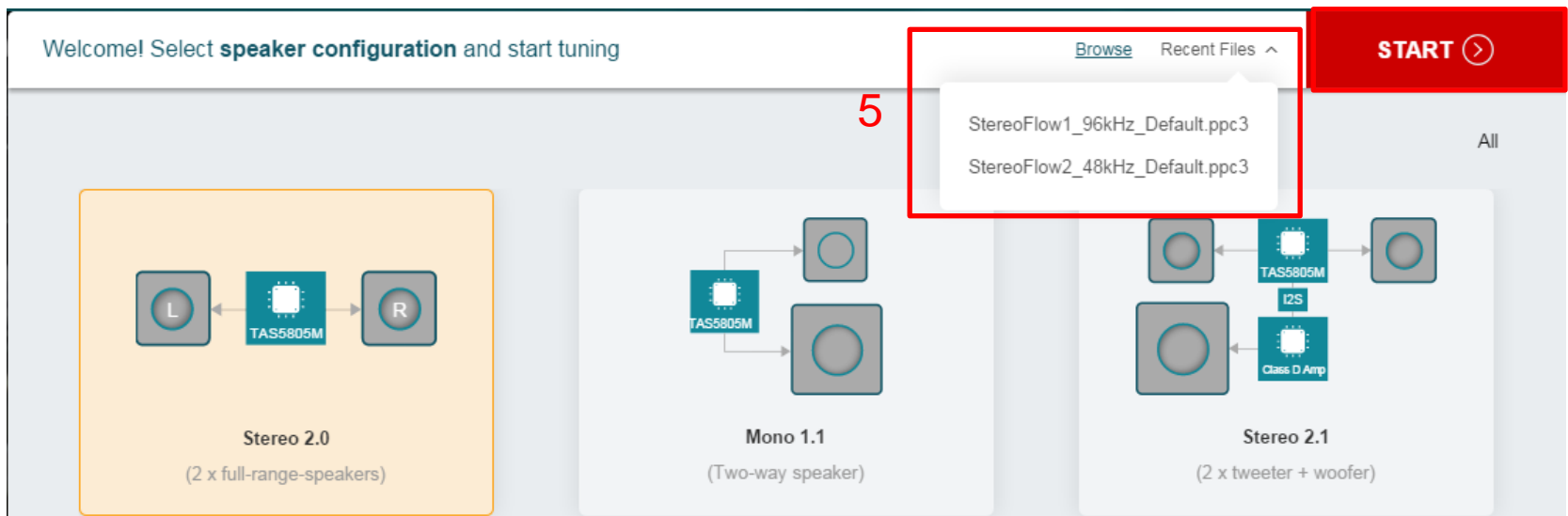
In-System Tuning

Hardware Connections



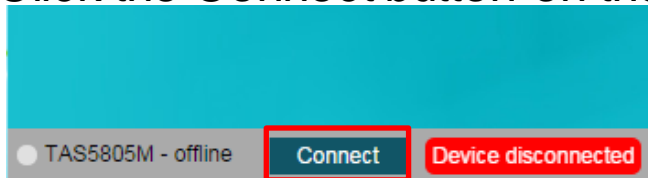
Step 1

1. Connect a PUREPATH-CMBEVM to your PC.
2. Power on PUREPATH-CMBEVM.
3. Plug in a Micro USB cable from the PC to PUREPATH-CMBEVM.
4. Launch PPC3 and go to TAS5766M app.
5. Load your tuning file(.ppc3).
6. Click the START button.

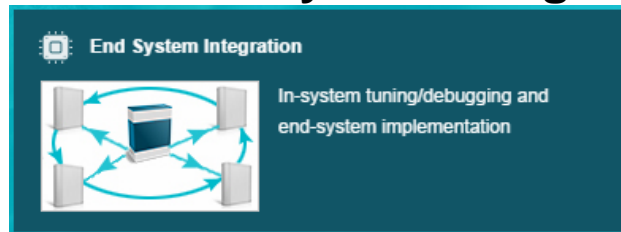


Step 2A

1. Click the Connect button on the bottom.



2. Go into **End System Integration**.



3. Select **In-System Tuning** and choose the right sample rate and device i2c address. Click the “Connect in system tuning mode” button.

☒ In-System Tuning

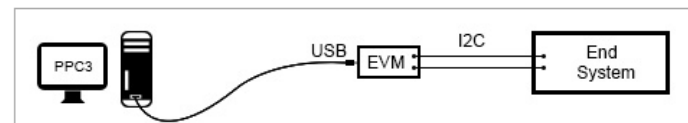
Choose this option to make fine adjustments in the end system.

Sample Rate

48 KHz

Device 1 I2C Address

0x98

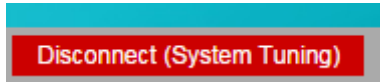


Connect the End System I2C bus to the SDA, SCL and GND test points on the motherboard.
NOTE: Revision F or newer of PUREPATH-CMBEVM allows USB power and removing the Target EVM from the motherboard

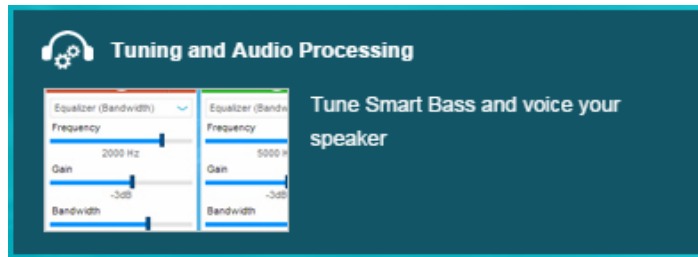
Connect in system tuning mode

Step 3A

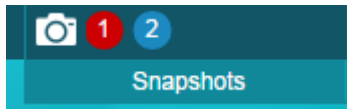
1. Make sure the “Disconnect (System Tuning)” button shows.



2. Open **Tuning and Audio Processing**. This will load tuning settings to the target TAS5766M device in the end system.



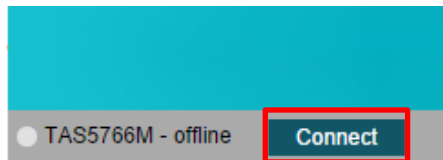
3. Select the desired **Snapshot** if any has been saved before.



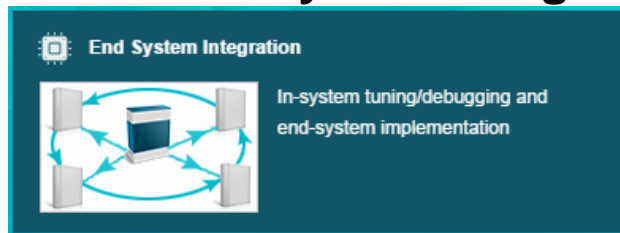
4. Make changes to your existing tuning settings.

Step 2B

1. Click the Connect button on the bottom.



2. Go into **End System Integration**.



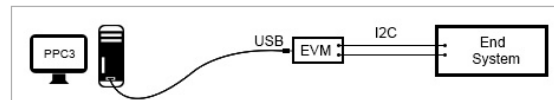
3. Select **In-System Debugging** and choose the device i2c address. Click the “Connect in system debug mode” button.

☒ In-System Debugging

Choose this option to read or write register values in the end system. Only Register Map and Direct I2C screens will be available.

Device 1 I2C Address

0x98



Connect the End System I2C bus to the SDA, SCL and GND test points on the motherboard.
NOTE: Revision F or newer of PUREPATH-CMBEVM allows USB power and removing the Target EVM from the motherboard

☐ In-System Tuning

Choose this option to make fine adjustments in the end system.

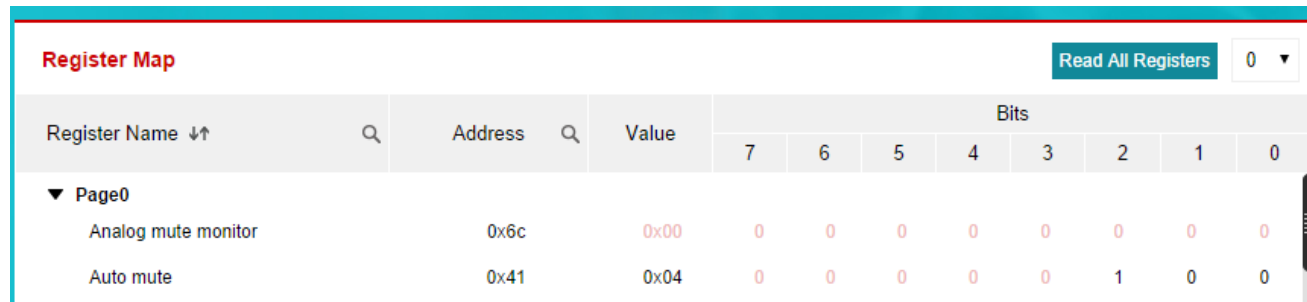
Connect in system debug mode

Step 3B

1. Make sure the “Disconnect (System Debug)” button shows.

Disconnect (System Debug)

2. Open **Register Map**. This will load the device register map that can be read back or modified on the TAS5766M



The screenshot shows the 'Register Map' interface. At the top right, there is a 'Read All Registers' button and a dropdown menu set to '0'. The main table has columns for 'Register Name', 'Address', 'Value', and 'Bits' (7, 6, 5, 4, 3, 2, 1, 0). The 'Page0' section is expanded, showing two registers: 'Analog mute monitor' at address 0x6c with value 0x00, and 'Auto mute' at address 0x41 with value 0x04. The bit values for these registers are shown in the 'Bits' columns.

Register Name	Address	Value	Bits							
			7	6	5	4	3	2	1	0
▼ Page0										
Analog mute monitor	0x6c	0x00	0	0	0	0	0	0	0	0
Auto mute	0x41	0x04	0	0	0	0	0	1	0	0

3. Open **Direct I2C**. This will open the Direct I2C command line that can allows scripts to write/readback registers on the device

