

STEPS		DESCRIPTIONS																																																																						
1. Request access and download PPC3 software and device app		PPC3: www.ti.com/drr/opn/PUREPATHCONSOLE Device App: https://www.ti.com/drr/opn/TAS2X20-GUI																																																																						
2. Set the IOVDD jumper on AC-MB		J3 on AC-MB: Choose either 3.3V or 1.8V																																																																						
3. Select audio source as USB on AC-MB		 S1: ON, S0: ON																																																																						
4. Connect EVM to the AC-MB		Connect AC-MB to EVM by placing the EVM on top of the edge of the AC-MB																																																																						
5. EVM Jumper Configuration:																																																																								
<table><tr><th rowspan="2">Jumper/ Switch</th><th rowspan="2">Description</th><th colspan="3">I2C Mode</th><th colspan="3">HW Pin Control Mode</th></tr><tr><th>1S Mode</th><th>2S Mode</th><th>Ext. PVDD</th><th>1S Mode</th><th>2S Mode</th><th>Ext. PVDD</th></tr><tr><td>SEL1 (J9/J86)</td><td>HW: Gain & Ramp Selector SW: SW mode selection</td><td>SW Mode</td><td>SW Mode</td><td>SW Mode</td><td>21dBV Ramp En</td><td>21dBV Ramp En</td><td>21dBV Ramp En</td></tr><tr><td>SEL2 (J10/J87)</td><td>HW: Channel Selector SW: SCL</td><td>Open</td><td>Open</td><td>Open</td><td>TDM0/ I2SL</td><td>TDM0/ I2SL</td><td>TDM0/ I2SL</td></tr><tr><td>SEL3 (S3)</td><td>HW: Data Edge, SW: SDA</td><td>00</td><td>00</td><td>00</td><td>01 or 10</td><td>01 or 10</td><td>01 or 10</td></tr><tr><td>SEL4 (S4)</td><td>HW: Y-Bridge Thld SW: I2C Address</td><td>0001</td><td>0001</td><td>0001</td><td>0001</td><td>0001</td><td>0001</td></tr><tr><td>SEL5 (S5)</td><td>HW: Battery Config SW: Ext. Class-H/shared boost control signal</td><td>0000</td><td>0000</td><td>0000</td><td>0010</td><td>0100</td><td>1000</td></tr><tr><td>J1/J11</td><td>VBAT (J30) source</td><td>Short</td><td>Open</td><td>Short</td><td>Short</td><td>Open</td><td>Short</td></tr><tr><td>J18/J19</td><td>SDA/SCL</td><td>Short</td><td>Short</td><td>Short</td><td>Open</td><td>Open</td><td>Open</td></tr></table>			Jumper/ Switch	Description	I2C Mode			HW Pin Control Mode			1S Mode	2S Mode	Ext. PVDD	1S Mode	2S Mode	Ext. PVDD	SEL1 (J9/J86)	HW: Gain & Ramp Selector SW: SW mode selection	SW Mode	SW Mode	SW Mode	21dBV Ramp En	21dBV Ramp En	21dBV Ramp En	SEL2 (J10/J87)	HW: Channel Selector SW: SCL	Open	Open	Open	TDM0/ I2SL	TDM0/ I2SL	TDM0/ I2SL	SEL3 (S3)	HW: Data Edge, SW: SDA	00	00	00	01 or 10	01 or 10	01 or 10	SEL4 (S4)	HW: Y-Bridge Thld SW: I2C Address	0001	0001	0001	0001	0001	0001	SEL5 (S5)	HW: Battery Config SW: Ext. Class-H/shared boost control signal	0000	0000	0000	0010	0100	1000	J1/J11	VBAT (J30) source	Short	Open	Short	Short	Open	Short	J18/J19	SDA/SCL	Short	Short	Short	Open	Open	Open
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6. Connect Power Supply to the EVM																																																																								
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7. Connect Speaker to the EVM speaker terminals		J14 and J15 terminals																																																																						
8. Turn on EVM Power Supply		Connect the barrel jack and other necessary supplies as mentioned in #6																																																																						
9. Connect USB to the AC-MB		Connect micro USB cable from PC to AC-MB																																																																						
10. Blue LED will indicate USB Ready		Digital data is ready to be transmitted to EVM. The evaluation kit works as any other sound card, select the EVM as system playback device and use any software like web browser, media player, etc.																																																																						

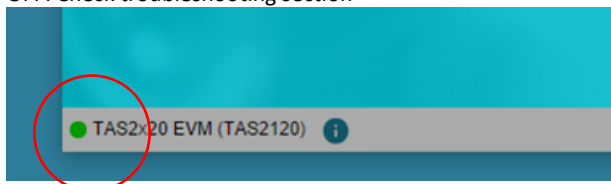
For HW pin control mode, Audio Playback is now ready! If using I2C mode, follow the rest of the procedure.

11. Open PPC3 and sign-in

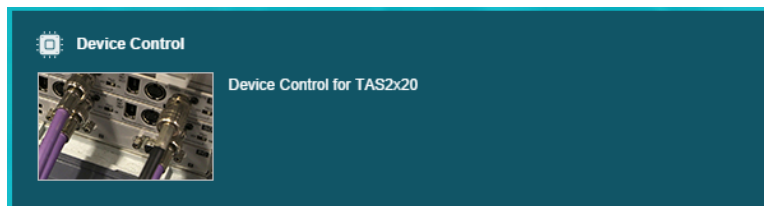
12. Open the correct device app

13. Green Light at the bottom left of the PPC3

ON: EVM is connected to the PPC3
OFF: Check troubleshooting section



14. Open Device Control Tile

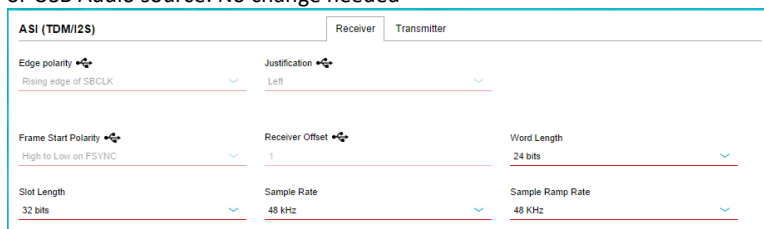


15. Select Power Mode + Speaker Impedance



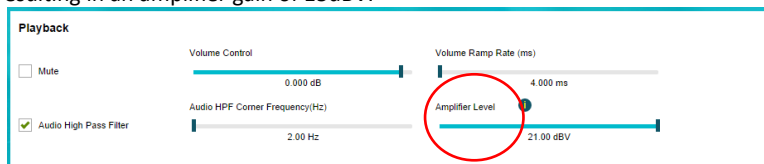
16. Setup ASI

For USB Audio source: No change needed

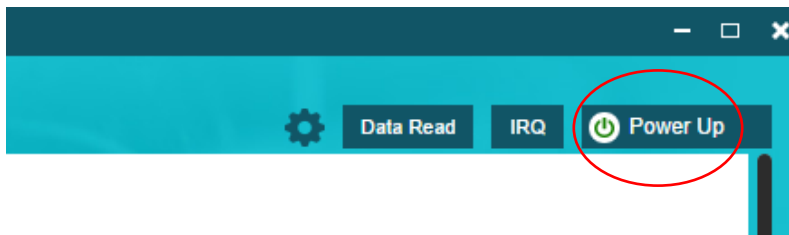


17. Amplifier Level Calculation

Calculate the gain based on the load impedance and required maximum power.
Example: For an 8Ω load and 4W output power, required rms voltage is 5.65V, resulting in an amplifier gain of 15dBV.



18. Click Power Up to put the device in Active Mode



For I2C mode, Audio Playback is now ready!



PRODUCT FOLDER



EVM PAGE



EVM USER'S GUIDE