PUREPATH PROCESS FLOW for Allo Piano 2.1 DAC

PurePath Studio GDE is used to generate the DSP process flows. You can download PurePath Studio from the below link.

http://www.ti.com/tool/aicpurepath studio

DSP process flow can be created by adding required components like filters, interpolators, etc. For more details on the PurePath Studio please refer to TI documents.

Required steps to generate the DSP fw bin file for Allo Piano 2.1 DAC:

1. DSP process flows must be created for subwoofer stereo, subwoofer mono & stereo speaker separately.





嘴 PurePath Studio (Home Audio) MiniDSP GDE (Edit Mode)

- 2. By clicking Build ->Generate code option, .cfg files get generated.
- 3. Within the .cfg files, all repeating lines should be modified. Execute this command within the directory where the configuration files reside.

\$sudo sed -i '/> 00/c\w 98 01 000' *

- Remove ^M (DOS carriage-return character) from the files, if present (Using Vim, :%s/.\{1}\$//)
- Convert .cfg files to .bin files with this command \$ xxd -r -p <file>.cfg <file>.bin

NOTE: In <file>.bin, file name must be as follows Allo-piano-dsp-<sampling rate>-<cut-off-frequency>-<sub-woofer>.bin sampling rate: 44100, 48000, 88200, 96000, 176400 or 192000 cut-off-frequency: 60, 70, 190 or 200 sub-woofer: 1 for subwoofer & 0 for audio-speakers.

- bin files must be copy into proper locations on the target board /lib/firmware/allo/piano/2.1 => Mono sub-woofer bin files /lib/firmware/allo/piano/2.2 => Stereo sub-woofer and audio-speaker bin files.
- 7. Reboot the target board, to enjoy the new DSP process flows.