

Xilica Solaro Level 1 Processing

02 October 2024

02Oct24 Processing for Fulcrum Acoustic loudspeakers was created with *Xilica Designer v4.9.0* software. The Processing uses arbitrary FIR filters to implement the precise temporal (time domain) filters that are responsible for the remarkable benefits of TQ processing. For more information on TQ processing please see the *TQ Explained* and *Implementing TQ Processing* white papers on the Fulcrum Acoustic website.

These Xilica settings will work in Solaro FR1 and QR1 processors. Note that the included FIR filters require the Solaro FR1 processor to be set to a 48 kHz sample rate. The QR1's sample rate is fixed at 48 kHz only.

Using the Processing:

- 1) Unzip the contents of "Xilica Solaro Processing 02Oct24.zip" file to an easily found location on your hard drive.
 - 2) Loudspeaker processing is grouped by product series. Open the *Xilica Designer* (.pxml) file that contains your desired loudspeaker(s). In it you will find a virtual Solaro Device. Double click the Device to open.
 - 3) Using your mouse window around the suite of DSP blocks that comprise a loudspeaker's processing and press CTRL-C to copy contents to the clipboard.
 - 4) Open the processor(s) in your design file and press `Ufd^?b2` to paste the DSP blocks copied in Step 3.
 - 5) Wire as appropriate.
 - 6) Lather, rinse, and repeat from Step 2 to add more loudspeaker processing.
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Notes:

- Each set of processing includes a user-adjustable high pas filter and a text block that suggests the minimum recommended high pass frequency.
 - Bi-amplified loudspeaker output gains assume all amplifier channels have the same voltage gain. If this is not possible, the included output gains should be adjusted to accommodate differences.
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Changes since 23Mar23 release:

- Added RX4, RX5, RX6, and RX8 processing.
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Please send any questions to info@fulcrum-acoustic.com , or give us a call at +1 866 234 0678 ext 1.