Rear/Center Channel plug-in was engineered for audio processing applications with the need for deriving a sum/difference signal from a stereo source. Along with large delay line and the choice of (L-R) or (L+R) modes, this plug-in combined with a miniDSP kit is a perfect fit to easily complement your existing audio systems with a center/rear speaker.

Software features

- Extensive set of audio algorithms
- Live tuning, hear the changes real time
- Save/Load configurations
- Optional offline system tuning
- Extensive plotting capabilities
- Plug & Play setup requires no driver
- Free Un-limited Upgrades, your plug-in evolves as we evolve!

Applications

- Rear Fill speakers (L-R mode)
- Center channel (L+R mode)
- Folded horns with long delay
- Sub Equalizer

Algorithm and plug-in configuration

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling frequency</td>
<td>48kHz</td>
</tr>
<tr>
<td>Algorithm resolution</td>
<td>Double precision for best audio quality (56bits resolution)</td>
</tr>
<tr>
<td>Digital Inputs</td>
<td>Plug-in IN#1&amp;2 selectable on I2S_Data_In7&amp;8</td>
</tr>
<tr>
<td>Digital Outputs</td>
<td>Plug-in OUT#1/2 available on I2S_Data_Out1/2/Un-processed signal from ADC on I2S_Data_Out5/6 Un-processed signal from Digital IN on I2S_Data_Out 7/8</td>
</tr>
<tr>
<td>Input mute/select</td>
<td>Click-less input mute per channel and input selection</td>
</tr>
<tr>
<td>Digital Input gain</td>
<td>Fader gain control from –80 to 0dB</td>
</tr>
<tr>
<td>In/Out RMS meters</td>
<td>Monitoring signal from –80dBFS to 0dBFS - 150ms refresh</td>
</tr>
<tr>
<td>Low/High pass filters</td>
<td>Butterworth/Bessel second order (-12dB/oct)</td>
</tr>
<tr>
<td></td>
<td>Linkwitz-Riley fourth order (-24dB/oct)</td>
</tr>
<tr>
<td>Difference/Sum mode</td>
<td>Difference mode: (Left - Right)</td>
</tr>
<tr>
<td></td>
<td>Sum mode: (Left + Right)</td>
</tr>
<tr>
<td>Graphic Equalizer</td>
<td>31 bands, 1/3 Octave Boost +/-12dB</td>
</tr>
<tr>
<td>Delay</td>
<td>Up to 27ms[927cm] with 0.02ms increments</td>
</tr>
<tr>
<td>Polarity</td>
<td>Invert polarity 180degree per channel</td>
</tr>
<tr>
<td>Master output gain</td>
<td>Analog potentiometer control master output digital gain fader from –80 to 0dB. Disabled if no pot connected.</td>
</tr>
</tbody>
</table>

Audio flow chart diagram

Application diagrams

miniDSP configurations

- Rear Fill Speaker Application (L-R)
- Center Speaker Application (L+R)

miniDSP/miniAMP/miniDIGI for all Digital Solution

MiniDSP, powered by DSP4YOU company
Features and Specifications subject to change prior notice
BandPass with selectable slopes

Double precision algorithms (56 bits) for greater resolution in low frequency range.

Filter choice to better fit your application.

Complex plotting displays the combined effect of low pass, equalizer and high pass filter.

Bypass feature to listen to the effect of filter settings.

31 bands Graphic Equalizer

Double precision algorithms (56 bits) for greater resolution in low frequency range.

Complex plotting displays the combined effect of low pass, equalizer and high pass filter.

Bypass feature to listen to the effect of your equalizer settings.

Delay, Polarity and input/output metering

Delay
Control delay per output channel to better time align each channel. To simplify your calculations, the equivalent distance in cm is calculated for you.

RMS meter displays for input and output channels. Resolution from -80 to 0 dBFS (Full scale)

Custom firmware
Looking for a custom firmware for a specific application? Want an OEM version for your own product line?

Our sales and engineering can help. Just email us with a description of your requirements and we'll get back to you with a quote.

Software & Hardware requirements

**PC Hardware requirements**
- 1GHz CPU
- 512MB RAM
- USB V2.0

**Software requirements**
- Windows XP/Vista/7
- Adobe Air environment
- Net 3.5 environment

**Mac Hardware requirements**
- Intel Core Duo or faster
- 512MB RAM
- USB V2.0

**Software requirements**
- Mac OS X v10.4, 10.5, 10.6
- Adobe Air environment

**Features and Specifications subject to change prior notice**