2way Crossover ADV 2.1 plug-in was designed for stereo active loudspeaker configurations with a Sub. Very similar to Crossover PEQ plug-in, this module adds the capability to mix outputs 1 & 2 to a single SUB output and power two satellite speakers on outputs 3&4. Combined with a miniAMP in2.1 mode, it is the perfect fit for a compact all digital solution.

**Software features**
- Extensive set of audio algorithms
- Live tuning, hear the changes real time
- Save/Load configurations
- Optional offline system tuning
- Advanced mode allows custom Biquad filter programming
- REW integration
- Extensive plotting capabilities
- Plug & Play setup requires no driver
- Free Un-limited Upgrades, your plug-in

**Applications**
- Active loudspeakers
- All digital active crossover module
- Custom amplifiers
- Small PA processor
- Custom Pro Audio boards

**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 available on I2S_Data_In7&amp;8</td>
</tr>
<tr>
<td>Digital Outputs</td>
<td>Plug-in OUT#1&amp;2 available on I2S_Data_Out1&amp;2</td>
</tr>
<tr>
<td></td>
<td>Plug-in Out# 3/4 available on I2S_Data_Out3/4</td>
</tr>
<tr>
<td></td>
<td>Un-processed signal from ADC on I2S_Data_Out5/6</td>
</tr>
<tr>
<td></td>
<td>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 gain</td>
<td>Fader gain control from –80 to 0dB</td>
</tr>
<tr>
<td>Input/ Output meters</td>
<td>Monitoring signal from –80dB to 0dB - High refresh rate</td>
</tr>
<tr>
<td>Low &amp; High Pass Filters on each output</td>
<td>Butterworth up to 8th order (6 to 48dB/oct) Linkwitz-Riley up to 8th order (12 to 48dB/oct) Bessel - 2nd order - Bypass per filter</td>
</tr>
<tr>
<td>Parametric Equalizers (Peak/Shelf)</td>
<td>6 EQ bands per input, 6 EQ bands per output frequency, Gain, Q configurable, Peak of Shelf (low/high) Per-band bypass feature</td>
</tr>
<tr>
<td>Delay</td>
<td>Up to 7.5ms per channel (258cm) with 0.02ms increments</td>
</tr>
<tr>
<td>Polarity</td>
<td>Invert polarity 180degree per channel</td>
</tr>
<tr>
<td>Output mute</td>
<td>Individual output mute</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>
<tr>
<td>Stereo/Mono Sub</td>
<td>Mono SUB out: Mixing LPF section of each 2 way Xover Stereo SUB out: Outputs are not mixed</td>
</tr>
</tbody>
</table>

**Audio flow chart diagram**

**Example application diagram**

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*MiniDSP Ltd - Features and Specifications subject to change prior notice*
2 way Crossover

Basic mode for text book filtering (Butterworth/Linkwitz Riley/Bessel)

Advanced mode for custom Biquad programming in a table format.

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

Wide range of filter choices
Up to 8th order (48dB/oct) with

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

Bypass feature to listen to

Parametric Equalizer

Advanced mode

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

Up to 6 Bands of parametric equalization with complete freedom on Frequency, Gain and Q settings

Peak/Low Shelf/High Shelf selectable per band

Per Band Bypass allows to quickly listen to the effect of your equalizer settings.

Delay, Polarity, Input/output metering and Input toggle

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 0dBfs (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

Togge your input source between Analog (A/D) or Digital (I2S) from a single mouse click.