4way Advanced is a 4 channel crossover plug-in for multi-way active loudspeaker configurations. Based on the architecture of a 4way PEQ version, this plug-in also provides the ability to input Biquad coefficients for up to 62 biquad filters allowing unparalleled flexibility for engineers looking for unique custom filtering.

#### Software features
- Extensive set of audio algorithms
- Live tuning, hear the changes real time
- Save/Load configurations
- Advanced mode allows custom Biquad filter programming
- Extensive plotting capabilities
- Plug & Play setup requires no driver
- Free Un-limited upgrades, your plug-in evolves as we evolve!

#### 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#1/2/3/4 available on I2S_Data_Out1/2/3/4</td>
</tr>
<tr>
<td></td>
<td>Un-processed signal from ADC on I2S_Data_Out15/6</td>
</tr>
<tr>
<td></td>
<td>Un-processed signal from Digital IN on I2S_Data_Out 7/8</td>
</tr>
<tr>
<td>Input mute/selector</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 –80dBFS to 0dBFS - High refresh rate</td>
</tr>
<tr>
<td>Low &amp; High Pass Filters</td>
<td>Butterworth up to 8th order (6 to 48dB/oct)</td>
</tr>
<tr>
<td>on each output</td>
<td>Linkwitz-Riley up to 8th order (12 to 48dB/oct)</td>
</tr>
<tr>
<td></td>
<td>Bessel - 2nd order - Bypass per filter</td>
</tr>
<tr>
<td>Parametric Equalizers</td>
<td>6 EQ bands per input, 6 EQ bands per output</td>
</tr>
<tr>
<td>(Peak/Shelf)</td>
<td>Frequency, Gain, Q configurable, Peak of Shelf (low/high) Per-band bypass feature</td>
</tr>
<tr>
<td>Advanced Mode</td>
<td>Allows programming of each filter (PEQ/Crossover) as a custom biquad filter for unique applications.</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>
</tbody>
</table>

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

#### Audio flow chart diagram

#### Example application diagram

#### miniDSP configurations

- From Audio source
- miniDSP
- Multi channel Amp
- To High Frequency
- To Medium Frequency Driver
- To Low Frequency Driver
- To Sub Frequency Driver

#### miniDSP/miniAMP/miniDIGI

- miniAMP
  - To High Frequency
  - To Medium Frequency Driver
  - To Low Frequency Driver
  - To Sub Frequency Driver
- miniDIGI #1
  - From SPDIF source

MiniDSP, powered by DSP4YOU Ltd
Features and Specifications subject to change prior notice
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