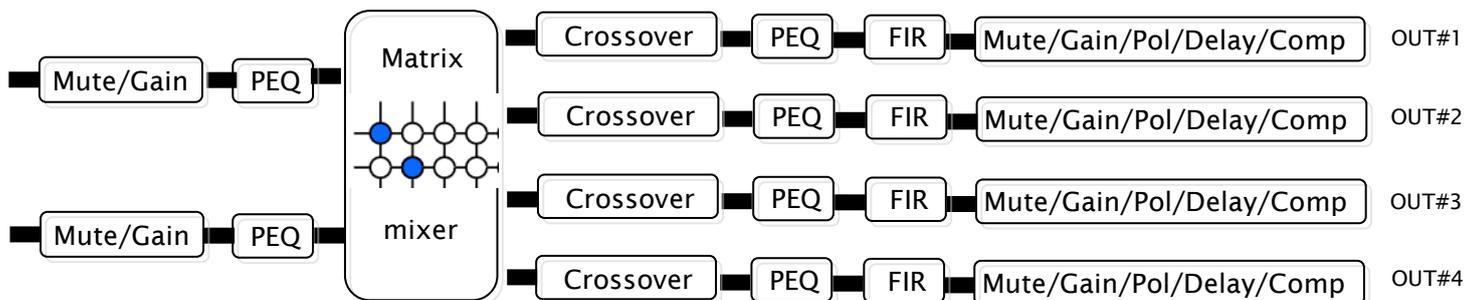The miniDSP 2x4 HD1 plug-in combines the needs for 2way, 3way and 2.1 setup into one configuration thanks to its internal matrix mixer. The compressor limiter on each output channel along with FIR banks make the miniDSP 2x4HD a very powerful platform. Similar to all miniDSP plug-ins, this plug-in is fully compatible with Room EQ Wizard thanks to its tight integration with the Advanced biquad feature.
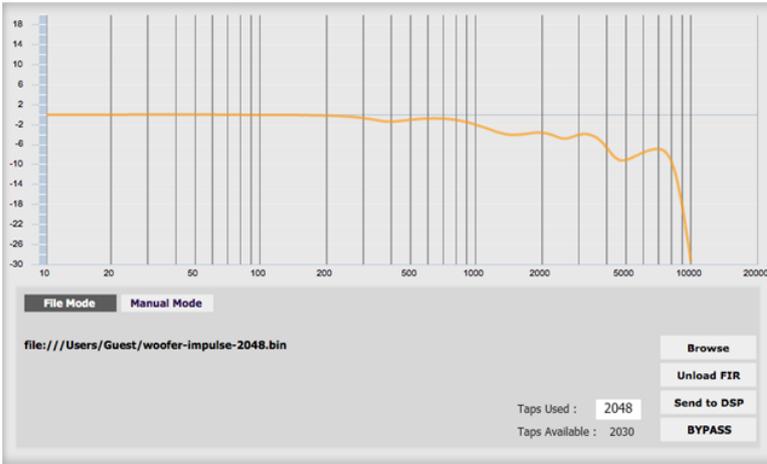
Algorithm and plug-in configuration

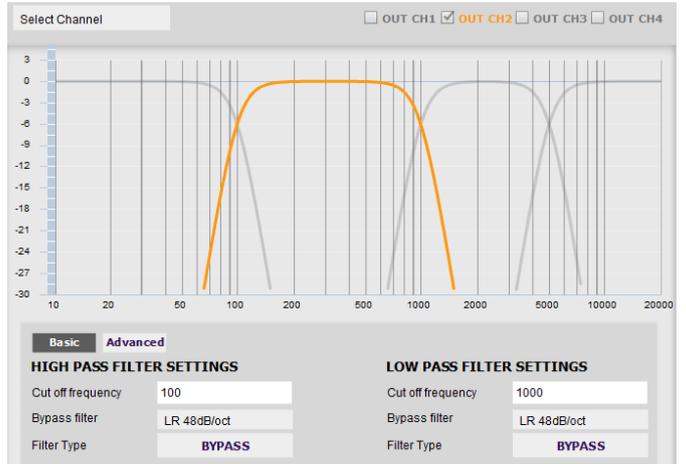| Item	Description
Compatible platform	miniDSP 2x4 HD
Sampling frequency	96kHz
Algorithm resolution	Floating point 32bit
Input configuration	Stereo input selectable between: - Analog input (RCA) - Digital input (Toslink/PCM up to 192kHz) - ASRC processed - USB audio input (Up to 192kHz) - ASRC processed - I2S (Future - Currently not available)
Output configuration	Duplicated processed 4ch outputs from DSP structure to: - Analog outputs (RCA) - USB Audio outputs (Bidirectional output) - I2S (Future - Currently not available)
Input mute/select	Click-less input mute per channel and input selection
Digital gain	Fader gain control from –72 to +12dB
Input/ Output meters	Monitoring signal from –80dBFS to 0dBFS - High refresh rate
Matrix Mixer	Full 2 x IN, 4 x OUT matrix mixer to control the routing of channels Volume control at cross points
Low & High Pass Filters on each output	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 Advanced mode for custom biquad input
Parametric Equalizers (Peak/Shelf)	10 EQ bands per input, 10 EQ bands per output Frequency, Gain, Q configurable, Peak of Shelf (low/high) Per-band bypass feature Advanced feature for custom biquad input
FIR filter banks	4 banks of FIR filters - Up to 4096taps
Delay	Up to 80mS per channel (2720cm) with 0.01ms increments
Polarity	Invert polarity 180degree per channel
Output mute	Individual output mute

SYSTEM DIAGRAM

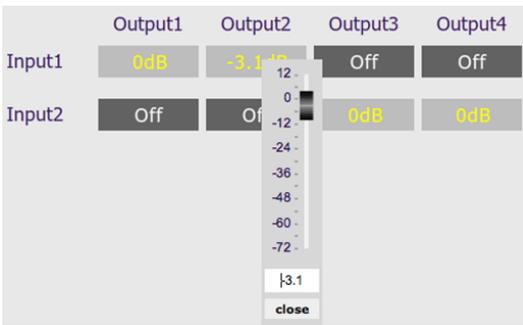## CROSSOVER SECTION and FIR SECTION
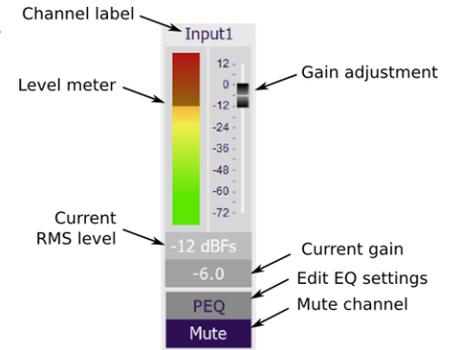
FIR filter dialog box
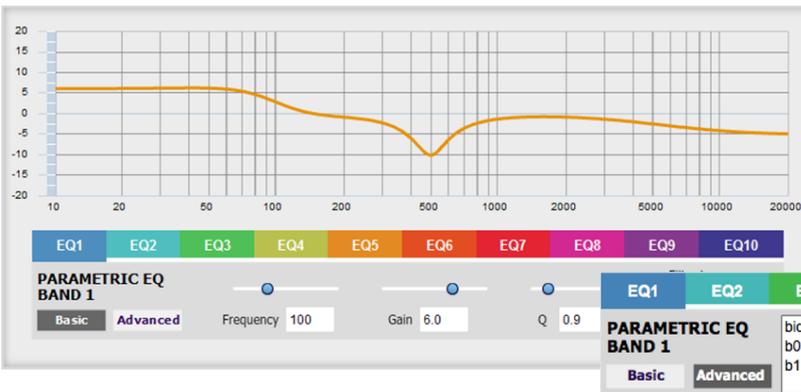
IIR filter dialog box

MATRIX MIXER

Matrix mixer at center of the DSP structures allows routing and mixing of the input channels to any of the outputs.

Volume control at each crosspoints.

Perfect to build configurations such as: Stereo 2way, 2.1, 3way, 3.1, 4way, multiple SUB..
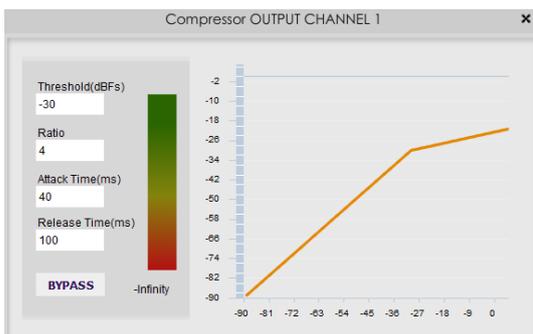
PARAMETRIC EQUALIZER

Up to 10 Bands of parametric equalization with complete freedom on Frequency, Gain and Q settings
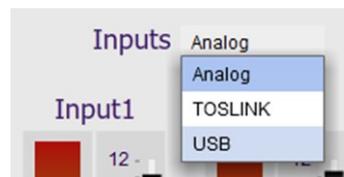
Peak/Low Shelf/High Shelf selectable per band

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

Advanced mode for custom biquad input

COMPRESSOR LIMITER / SOURCE SELECTION

COMP/LIM dialog box with real time monitoring of compressed signal.

SOURCE & PRESET selection on front page.

Features and specifications are subject to change without prior notice

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