

FEATURES

Hardware

- 28/56bit DSP Engine
- 24-bit ADC/DAC conversion
- 48kHz sampling rate
- Nichicon Muse audiophile Caps
- Balanced in/out on terminal block
- Jumper allows modification of the maximum input sensitivity

Audio Processing

- Real time tuning of audio settings
- Upgradeable firmware
- Wide selection of plug-ins allowing: Low/High pass filters (up to 48dB), Graphic & Parametric equalizers, Low/High shelf, custom filtering, Matrix mixer, Level, Mute, polarity, RMS Meters for inputs/outputs

Control

- Real time configuration by software
- Plug&Play USB driver
- WinXP/Vista/7 and Mac compatible

Power

- Single 12VDC via terminal block

Applications

- System Equalization
- Digital crossover
- Live Sound
- Custom Pro Audio projects



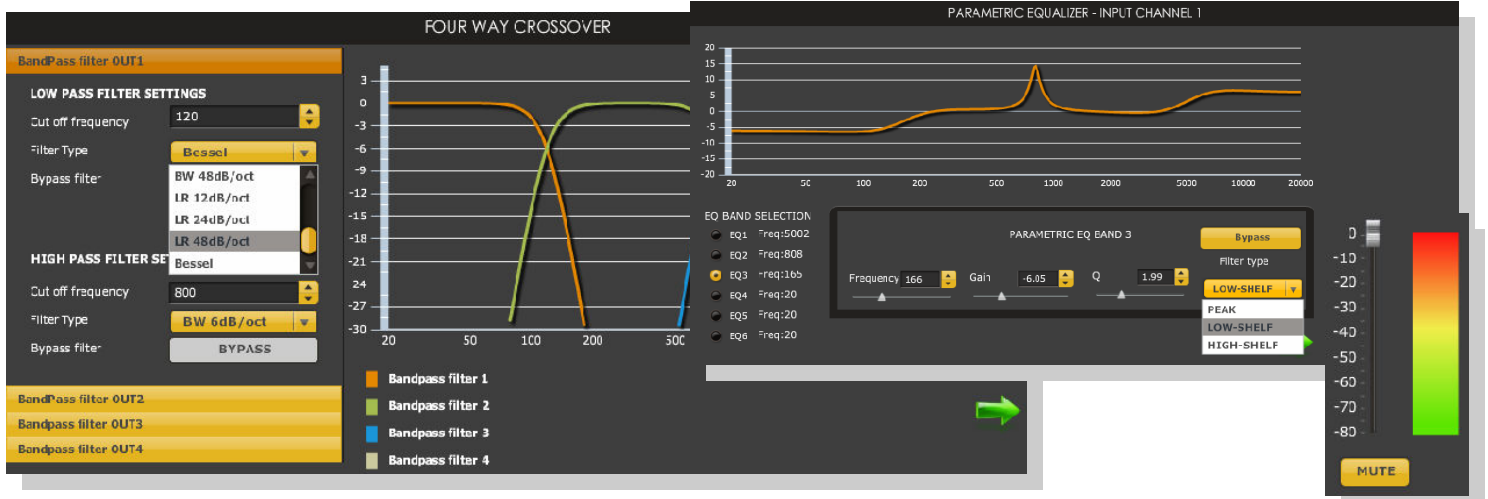
miniDSP Balanced 2x4 is an innovative low cost and low power Digital Signal Processor in a pocket size form factor. With our revolutionary “one platform, many configuration” concept, miniDSP gives un-paralleled flexibility to engineers & A/V designers at a fraction of the cost of typical alternatives. May it be a source mixer or a multi-way digital crossover it will be up to your imagination to configure it the way you see fit.

Targeting balanced audio applications, the miniDSP balanced 2x4 provides digital signal processing algorithms such as graphic and parametric equalizers, mixers, crossovers, delay, etc. Built and engineered with a combination of low noise electronic parts along with double precision audio algorithms, the end results is low cost DSP unit that stands out in its superior performance as well as its affordability.

Compared to the miniDSP 2x4, the miniDSP Balanced allows for balanced input & output connectivity and higher output gain. In order to fit most gain configurations, a single jumper change is all it takes to toggle the input sensitivity from 0.9Vrms to 2Vrms.

miniDSP kits: innovative and low cost Digital Signal Processors

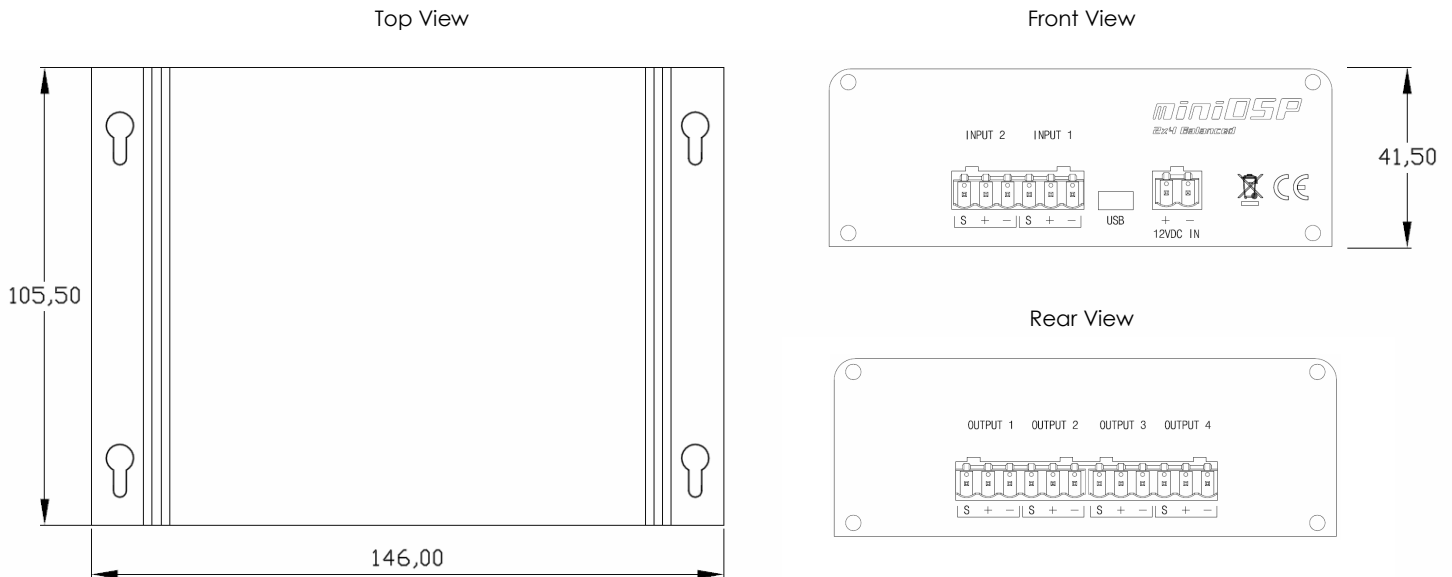
Screenshots of miniDSP Plug-Ins



TECHNICAL SPECIFICATIONS

Item	Description
Digital Signal Processor Engine	28/56 bit Digital Signal Processor Engine / Double precision processing
Host Processor	48MHz microcontroller
Digital audio sample rate	48kHz standard
ADC/DAC Data resolution	24 bits
Analog Audio Input	Balanced inputs, plug-in terminal block type
Maximum input level <1% THD	Input sensitivity configurable by jumpers from 0.9Vrms(7dBu in balanced mode) to 2Vrms(14dBu in Balanced mode)
Dynamic range, un-weighted	>99dB
Analog Audio Output	Balanced output, plug-in terminal block type
Maximum output level <1% THD	2Vrms (5.6Vpp) referenced to ground, i.e. 14dBu in balanced mode
Dynamic range, un-weighted	>99dB
Power supply	12VDC supply - 150mA
Programming	USB programming from Windows XP/Vista/7 or Mac platforms Plug & play driverless USB interface
Dimensions (H x W x D)	41.5mm x 146mm x 105.5mm
Mounting / Enclosure material	Keyhole mounts allows installation of enclosure on walls, under tables Strong aluminum casing for installation in tough environments
Product Certification	CE/FCC class B device ROHS compliant

MECHANICAL SPECIFICATIONS



ORDERING

SKU	Description
601-224	MiniDSP Balanced 2x4 , 2 x balanced inputs, 4 x balanced outputs - Signal processing based on the selected plug-in.