Features
- Pocket size processor
- Live/Real time changes

Hardware
- Analog Devices Fixed point DSP
- 28/56 bit processing
- Stereo balanced analog inputs
- Four balanced analog outputs
- Input & Output jumpers to help gain structure matching

Software Control
- Real time live control over USB
- Windows & Mac compatible
- Wide range of audio plug-ins

Power
- External 12 VDC supply
- Low power consumption

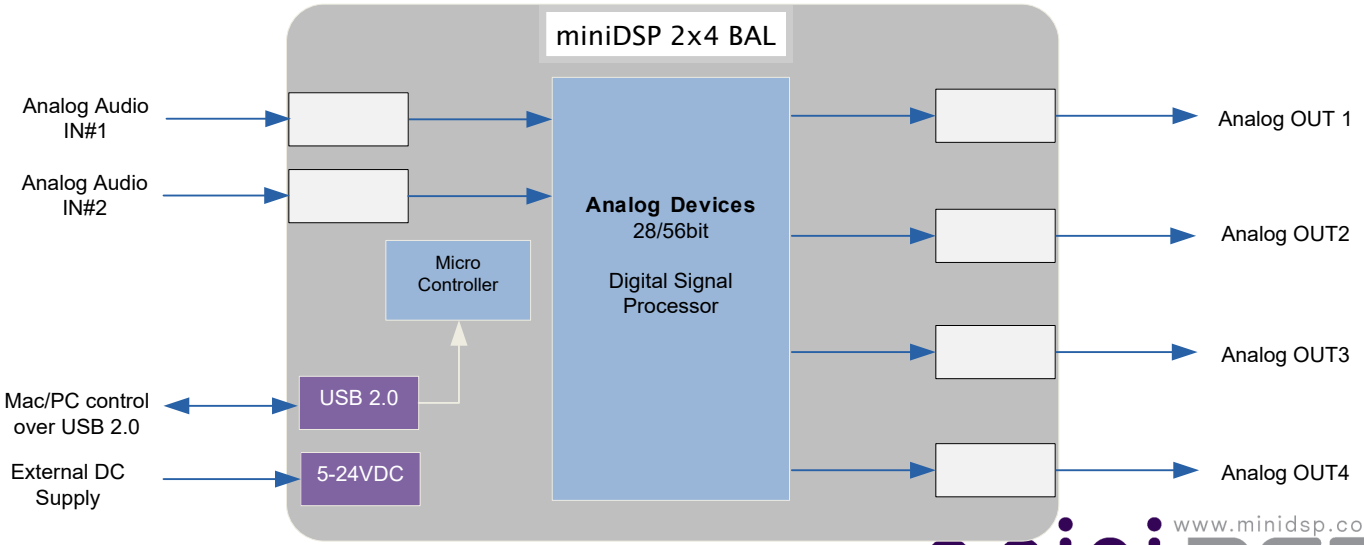
Applications
- Digital crossover (2way/4way)
- Subwoofer processor
- Car audio signal processing
- DIY Audio projects

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 kits 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 various digital signal processing algorithms such as graphic and parametric equalizers, mixers, crossovers, delay.. depending on the selected plug-in. 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 2x4 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.

SYSTEM DIAGRAM



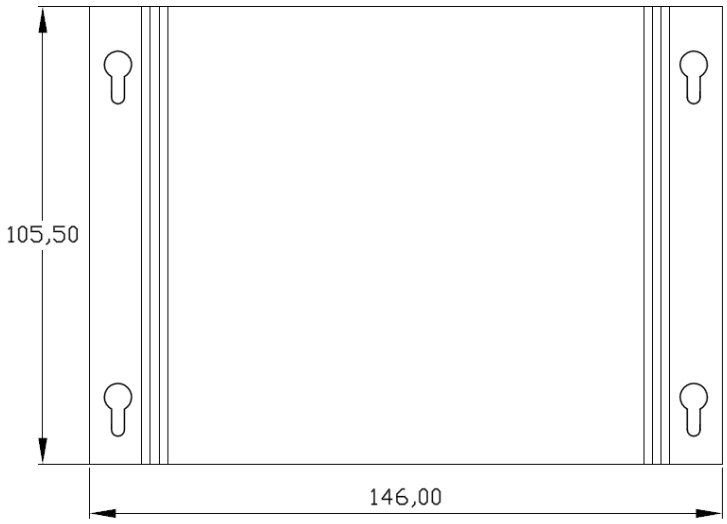
Features and specifications are subject to change without prior notice

HARDWARE SPECIFICATIONS

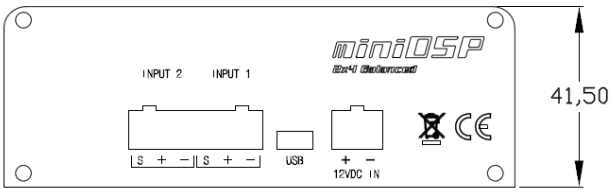
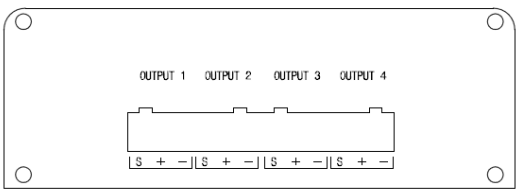
Item	Description
Digital Signal Processor Engine	28/56 bit Digital Signal Processor Engine / Double precision processing
Host Processor	48MHz microcontroller
Digital audio sample rate	48kHz standard
ADC/DAC Data resolution	24 bits
Analog Audio Input	Balanced inputs, plug-in terminal block type
Maximum input level	Input sensitivity configurable by jumpers 4Vrms/1.8Vrms
Dynamic range, un-weighted	>99dB
Analog Audio Output	Balanced output, plug-in terminal block type
Maximum output level	Output level selectable between 2Vrms or 4Vrms (only on PCB rev 1.7 and up)
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

Top View



Front View



Rear View