



MicroAudio

EQ POD1.2DSP series II EQ POD2.2DSP series II EQ POD4.2DSP series II 1, 2 & 4 Channel Digital Signal Processors



KEY FEATURES:

- Tamper-proof, no user accessible controls, single rack space (for applications not requiring security an optional user accessible front panel LCD display is available)
- Optional SPDIF and TOSLINK digital inputs
- Programmable volume control
- 30 parametric EQ filters, variable frequency (1 Hertz resolution), Q (1/12th to 1 octave) and gain: +6dB to -22dB
- Precision Crystal Semi™ converters for ultra-transparent imaging
- Low and high pass filters or crossover
- 8 different presets selectable by simple contact closure on rear panel
- Signal delay to 677 feet
- Programmable via the IBM PC and ParaGraphics Software
- Output Limiter, -20 to +10dB
- 36 month warranty

DESCRIPTION:

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The EQ POD1.2DSP is a 1 input/ 1 output digital signal processor. Similar to the EQ POD1.2DSP, but in a dual configuration is the EQ POD2.2DSP. The EQ POD2.2DSP has 2 inputs/ 2 outputs and the EQ POD4.2DSP has 4 inputs/ 4 outputs. Software configurable features are 30 bands of parametric EQ filters, signal delay, and output limiter per channel. A frequency response graph shows the user the effect of the filter on the system as changes are made. The output has a limiter controlling unwanted transients. The threshold, gain reduction, and release times are all user programmable. The low and high pass filters can be configured as a Linkwitz-Riley crossover programmable in 1 Hertz steps with -12dB or -24dB slope. The EQ POD employs the finest Crystal Semiconductor™ converters. The DSP engine consists of a Motorola 56303 100MHz processors using 48KHz internal processing. These components give the unit the most transparent sound available in any DSP today. The EQ POD stores 8 presets, recallable via a simple contact closure. The unit has an elegant 3/16" thick black anodized front panel. All controls on the rear. All functions of these DSPs are easily configurable from the host IBM PC/laptop. All host software is included with the unit.

Optional are SPDIF(RCA) and TOSLINK (optical) digital inputs



rear panel EQ POD1.2DSP

SPECIFICATIONS:

Number of Channels:

EQ POD1.2DSP: 1 input/ 1 output
EQ POD2.2DSP: 2 input/ 2 output
EQ POD4.2DSP: 4 input/ 4 output

Circuitry Type:

24 bit Digital Signal Processing, 48 bit internal processing.
Crystal Semiconductor™ ADC/DAC converters
DSP Engine: Motorola 56303 100 MHz DSP.

Input/Output Gain control: -78dB to 0dB

Maximum Input and Output:

Selectable +10dBu or +17dBu (ref to .775VRMS)

Parametric EQ:

Frequency Resolution: 1Hz, Gain: +6 to -22dB in 1/2dB steps,
Q (filter width): 1/12th to 1 octave

Limiter:

Threshold: -20dBu to +10dBu, Attack time: 0.01millisec to 2sec,
Release time: 0.4millisec to 4sec Hold time: 50ms to 0.9sec

Crossover:

Linkwitz-Riley -12dB or -24dB slope any frequency from 20 to
20KHz, 1 Hertz resolution

Memories:

8 non-volatile FLASH with memory retention greater than
20 years, selectable by simple contact closure.

Frequency Response: 20 to 20KHz +-1/2dB

Total Harmonic Distortion: 0.01%

Noise Floor: Better than -90dBu (ref to .775VRMS)

Connectors:

Audio In/Out: Screw terminal connector

RS232 Data: RS232 female DB9 connector

Digital input (OPTIONAL): SPDIF (RCA) and TOSLINK (optical)

Signal Delay:

Any output 21 microseconds to 599milliseconds (21 us steps)

Controls: One green LED for power, orange for overload

Dimensions: 19.0"Wx1.75"Hx13.125"D (48.2cmx4.4cmx33cm)

Chassis & Color:

18ga steel chassis, black powder coat

3/16" grained aluminum black anodized front panel

Power Requirements: 120VAC or 230VAC (field configurable)