



The *DSP-2040* is a powerful DSP based audio processor, ideally suited for install and live applications, where it combines the functions of a multitude of conventional products in a compact unit.

Features

- 2 inputs and 4 outputs - native processing runs at 96k resulting in wider bandwidth (over 30kHz).
- Optimized converters - lower noise and optimized distortion figures.
- Extended processing capabilities - 9 full bandwidth parametric bands available on every output, all switchable between PEQ, high and low shelving responses, and high / low pass variable 'Q' filters.
- Crossover filters on each output offer 48dB/Oct. responses. A gentle 6dB/Oct roll-off response is also included.
- Flexible routing matrix available - in addition to standard fixed configurations such as 2 x 2 way (standard configs are still implemented), as 1 x 3 way + Aux or as 1 x 4 way. Edit buttons show routing instantly when pressed.
- Program and Clip Limiters - Look-ahead limiters with automatic and manual time constant facilities.
- Delay memory allows for up to 650mS from any input to any output - extra fine delay resolution on outputs for driver alignment, in 30nS (0.1mm) steps!
- Extended memory capacity - user memories extended from 9 to a maximum of 256.
- 2 x 24 character display with new low profile buttons.
- Auto switching power supply works worldwide on all voltages.

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Specifications

Inputs: 2 electronically balanced

Impedance: > 10k ohms.

CMRR : >65dB 50Hz - 10kHz.

MUTE : ON/OFF

Outputs: 4 electronically balanced

Source Imp: < 60 ohms

Min. Load: 600 ohms

Max. Level: +20dBm into 600 ohms

MUTE : ON/OFF

Frequency Resp.: $\pm 1/2$ dB 20Hz-20kHz
-3dB @ 32kHz

Dyn. Range: >116dB 20Hz-20kHz unweighted

Distortion: < .02%@1kHz,+18dBm

Maximum Delay: 650 ms

Min Step Size: 0.3uS

Input Gain: +6dB to -40dB in 0.1dB steps

Output Gain: +15dB to -40dB in 0.1dB steps

Parametric Equalisation

8 per Input / 9 Sections per Output

Filter Gain: +15dB to -30dB in 0.1dB steps

Freq. Range: 19.7Hz - 32kHz, 1/36 octave steps

Filter Q / BW: 0.4 to 128 / 2.5 to 0.008

(Sections switched to shelving response)

Low frequency: 19.2Hz - 1kHz

High frequency: 1kHz - 32kHz

Shelf gains: ± 15 dB in 0.1dB steps

High and Lowpass Filters

Filters: 1 of each per output.

Freq. Range HPF: 10Hz - 16kHz

1/36 octave steps.

Freq. Range LPF: 35Hz - 22kHz

1/36 octave steps.

Responses:

1st Order 6dB/Oct.

Bessel/Butterworth/Linkwitz-Riley 12-24-48dB/Oct.

Bessel/Butterworth 18dB/Oct.

Limiters

Program Limiter:

Threshold: +22dBu to -10dBu

Attack time: 0.3 to 90 milliseconds

Release time: 2/4/8/16/32 x Attack time

“D-Max” Limiter:

Attack Time: -60uS

Release Time: Slow/Medium/Fast

Display: 2 x 24 Character LCD

Input meter: 2 x 4 point, -24dB to digital clip

Output meter: 4 x 4 point, -24dB to +4dB into limit

Connectors

Inputs: 3 pin female XLR

Outputs: 3 pin male XLR

External: 9 pin DEE connector (RS232)

Power: 3 pin IEC

Power: 60 to 250V $\pm 15\%$ @ 50/60Hz

Consumption: < 30 watts.

Weight: 3.3kg. Net (4.7kg. Shipping)

7.26lb. Net (10.34lb. Shipping)

Size: 44 x 482 x 300 (mm)

1.75"(1U) x 19" x 11.8"

Due to continuing product improvement the above specifications are subject to change.

Latency: 1.5mS (analogue in – analogue out @ 96kHz)

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