



Product Data

- 5 bands of equalization
- 12dB of boost and cut
- Recessed center detent adjustment controls
- Use as a Unified Line Accessory card or stand-alone unit
- EQ bypass switch
- Direct buffered outputs

Specifications:

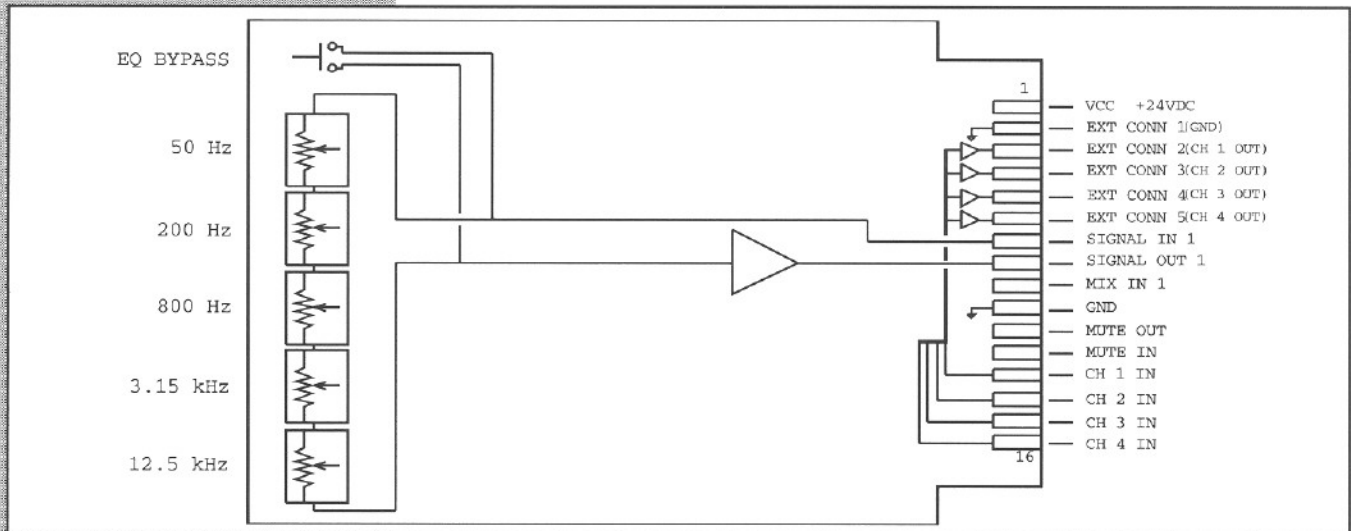
Filter Type:	Variable Q, Active filter set
Number of Bands:	5 bands at ISO center frequencies 50 Hz, 200 Hz, 800 Hz, 3.15 kHz, 12.5 kHz
Input Type:	Unbalanced
Impedance:	1K ohm
Maximum Level:	20 dBu
Normal Level:	4 dBu
Output Type:	Unbalanced
Impedance:	200 ohm
Maximum Level:	18 dBu
Load Impedance:	600 ohm
Frequency Response:	20 Hz to 20 kHz, ± 1 dB
Operating Gain:	-2 dB
Available Gain:	± 12 dB
Distortion:	< 0.02% at 1 kHz and 4 dBu
Noise:	-88 dBu (30 kHz low-pass filter)
Power Requirements:	24 VDC, 100 mA
Shipping Weight:	1 lb

Description

The UEQ-100 is a single channel five band audio equalizer designed to be used with the Unified Electronics Line products. The accessory card can be inserted into an MX-8 MixerDock™ mainframe, any of the 2000 Series PowerDock™ mainframes, or the MDC-200 MasterDock™ chassis. It offers 5 bands of equalization with 12dB of boost & cut at center frequencies of 50 Hz, 200 Hz, 800 Hz, 3.15 kHz, and 12.5 kHz. Each of the frequency bands is

adjusted with a center detent recessed potentiometer, and silkscreen markings on the front panel that correspond to "flat", ± 6 dB, and ± 12 dB settings. A front panel EQ bypass switch takes the equalizer out of the signal path. The UEQ-100 also provides low impedance buffered outputs for up to four input channels when used in one of the Unified mainframe units.

Block Diagram



Architect's, Engineer's and Consultant's Specifications

The equalizer shall be the University Sound Model UEQ-100, and employ 5 frequency bands of equalization centered on ISO standard frequencies. These frequencies shall be 50Hz, 200Hz, 800Hz, 3.15kHz, and 12.5kHz. Each of 5 center detent front panel potentiometers shall provide 12 dB of boost and cut at the above mentioned center frequencies. The unit shall have front panel silkscreened markings that correspond to ± 6 dB, ± 12 dB, and "flat" equalizer settings. The unit shall accommodate an unbalanced input signal, and provide an unbalanced output signal. The equalizer shall be capable of providing a maximum output level of 18dBu,

while providing a frequency response of 20 Hz to 20 kHz, ± 1 dB. The distortion of the unit shall be less than 0.02% at a frequency of 1 kHz and output level of 4 dBu. A front panel bypass pushbutton switch shall take the equalizer out of the circuit. Four low impedance, buffered outputs shall be available that correspond to four independent input channels not connected to the equalizer circuit. The UEQ-100 shall be powered from 24 VDC at 100 mA. The UEQ-100 shall be fully compatible with all Unified Electronics Line products. The Model UEQ-100 has been specified.

