



The MSP11 is a Single-Channel Multi-function DSP System Processor which combines gain management, equalization, & delay functions all in a convenient and affordable single rack-space package. This DSP-based unit includes leveling, compression, limiting, & soft-gating gain functions, as well as a combination of 1/3-octave & parametric equalization functions, plus additional high-pass & low-pass filters, and it provides delay with automatic distance/time calculation for proper settings. The MSP11 is covered by a five-year warranty.

FEATURES

- 24-bit Digital Signal Processing (DSP) with 48kHz sampling
- single-channel gain management, equalization, & delay
- leveling, compression, limiting, & soft-gating gain functions
- combined 1/3-octave & parametric equalization (34 bands)
- high-pass & low-pass filters with variable frequency & slope
- broad delay range useful for room delay or driver alignment
- delay includes distance calculations to insure proper settings
- balanced inputs & outputs on plug-in barrier strip connectors
- no manual controls on chassis, to help prevent tampering
- controls & indicators provided by software graphic interface
- BiampWin programming software & serial cable included
- non-volatile memory presets store/recall processor settings
- remote control via RS-232 & programmable logic inputs
- incorporates **AES** recommended grounding practices
- **CE** marked and **UL / C-UL** listed power source
- covered by Biamp Systems' five-year warranty

ARCHITECTS & ENGINEERS SPECIFICATION

The multifunction system processor shall be DSP-based, providing a single channel of combined gain management, equalization, & delay functions in a single rack-space unit. Gain management functions shall include leveling, compression, limiting, & soft-gating. Equalization shall be a combination of 1/3-octave & parametric, plus high-pass & low-pass filters with variable frequency & slope. A broad range of delay times shall be available for both room delay & driver alignment applications. Automatic calculation of distance/delay times shall be provided to insure proper delay settings.

Balanced line-level input & output shall be provided on plug-in barrier strip connectors. Input & output levels shall be variable, with complete software level metering capability. Non-volatile memory presets shall be available to store/recall processor settings. The processor shall provide 8 programmable logic inputs, allowing remote control via external contact-closures.

Serial & link ports shall allow RS-232 control, with Windows® 95/98/NT/2000/XP software & serial cable provided. No manual controls shall be provided. All processor controls & indicators shall be provided via software graphic interface. Remote control shall be via RS-232 and/or programmable logic inputs.

Frequency Response shall be +0/-0.5dB (20Hz~20kHz @ +4dBu). THD+N shall be less than 0.018% (20Hz~20kHz @ +4dBu). Dynamic Range shall be greater than 100dB (20Hz~20kHz @ unity gain). Power Consumption shall be less than 15 watts. Dimensions shall be 1.75" high, 19" wide, & 7" deep. Weight shall be 4.5 lbs. Warranty coverage shall be 5-years. The multi-function system processor shall be CE marked, include a UL / C-UL listed power source, and incorporate AES recommended grounding practices.

The multi-function system processor shall be a BIAMP MSP11.

MSP11 SPECIFICATIONS

Frequency Response (20Hz-20kHz @ +4dBu):	+0/-0.5dB	Sampling Rate:	48kHz
THD+Noise (20Hz-20kHz @ +4dBu):	< 0.018%	A/D & D/A Converters:	128x oversampled 24-bit sigma delta
Dynamic Range (20Hz-20kHz):	> 100dB	Power Consumption:	< 15 watts
Maximum Gain:	20dB	Dimensions:	
Input Impedance (balanced):	20k ohms	height (1 rack space)	1.75" (44mm)
Maximum Input (balanced):	+24dBu	width	19" (483mm)
Output Impedance (balanced):	200 ohms	depth	7" (178mm)
Maximum Output (balanced):	+24dBu	Weight:	4.5 lbs. (2.04kg)

MSP11 REAR PANEL DIAGRAM



MSP11 BLOCK DIAGRAM

