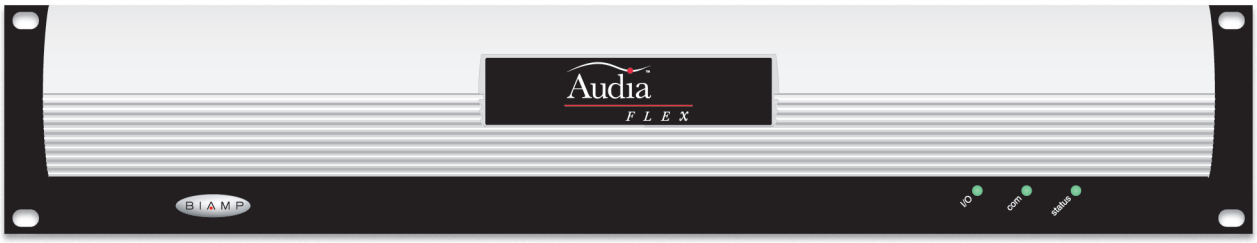
BIAMP®

Audia*FLEX*
Digital Audio Platform



Audia*FLEX* is an expanded version of AUDIA®, the benchmark in digital audio systems for demanding professional sound installations. Audia*FLEX* provides the same easy-to-use software and functional algorithms, but with far greater flexibility in the choice of I/O configurations. Inputs and outputs may be specified by pairs, in any combination, up to a total of 24. All possible I/O configurations are available with or without CobraNet™, for multi-device or stand-alone systems. The intuitive software provides audio system design capabilities via PC computer, and allows easy selection, viewing, and calibration of numerous audio components: mixers, combiners, matrixes, equalizers, filters, crossovers, dynamics, routers, delays, remote controls, meters, generators, diagnostics, etc. Once a system design is compiled, it is downloaded into Audia*FLEX*, where it can then be controlled via third-party systems, such as AMX® and Crestron®, via computer, and/or via dedicated AUDIA remote control panels.

FEATURES

- Up to 24 inputs/outputs, with or without CobraNet
- Input (IP2), echo canceling (AEC2w), telephone interface (TI-2) & output (OP2e) I/O card options
- Input and output expanders (8-channel/CobraNet)
- On-screen display of the total audio design
- Configuration/control via PC/laptop (Ethernet)
- Third-party control via RS-232 or TCP/IP
- Remote control panels for levels, presets, etc.
- Built-in diagnostic tools
- Multi-level security coding
- Unlimited system size
- **CE** marked and **UL** / **C-UL** listed
- Ability to select, view, and calibrate:
  - Mixers: standard, automatic, matrix, combiners
  - Equalizers: graphic, parametric, feedback
  - Filters: HPF, LPF, high shelf, low shelf, all-pass
  - Crossovers: 2-Way, 3-Way, 4-way
  - Dynamics: leveler, comp/limiter, ducker, ANC
  - Routers: 2x4 ~ 56x56
  - Delays: 0 ~ 2000mS
  - Controls: levels, mutes, presets, schedulers, logic gates, RS-232 commands, etc.
  - Meters: signal present, peak, RMS
  - Generators: tone, pink-noise, white-noise
  - Diagnostics: transfer function

ARCHITECTS & ENGINEERS SPECIFICATION

The Digital Audio Platform shall be available in various I/O configurations. Inputs/outputs shall be specified in pairs, up to a total of 24. Mic/line Input (IP2), Acoustic Echo Cancellation (AEC2w), Telephone Interface (TI-2), and Mic/Line Ouput (OP2e) input/output options shall be available. Inputs/outputs shall be analog, with internal 24-bit A/D & D/A converters operating at a sample rate of 48kHz. All internal processing shall be digital (DSP). Electronically balanced inputs and outputs shall be provided on plug-in barrier-strip connectors. Inputs and outputs shall be individually programmable for either microphone or line level signal. Expansion units, utilizing CobraNet, shall be available in 8-channel versions, for adding analog or digital inputs/outputs to a system.

Each hardware configuration shall include six 60MHz 32-bit floating point DSPs. Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited to) various forms of: mixers, equalizers, filters, crossovers, dynamics/gain controls, routers, delays, remote controls, meters, generators, and diagnostics. Ethernet communications shall be utilized for software control, configuration, and DSP distribution. Each hardware configuration shall be available with CobraNet™ (for multi-unit applications) or without CobraNet (for stand-alone applications). CobraNet technology shall transport digital audio over fast Ethernet, allowing multiple units to share digital audio. Multi-unit applications shall require an external 10/100Base-T Ethernet switch. All CobraNet and Ethernet connections shall be via CAT5 cable or fiber-optic. After initial programming, systems may be controlled using either TCP/IP or RS-232 serial communication by third party control systems (such as AMX® and Crestron®), by PC computer, and/or by dedicated remote control devices. Software shall operate on a PC computer, with network card installed, running Windows® 2000/XP.

The Digital Audio Platform shall be Audia*FLEX*.

Biamp Systems, 10074 S.W. Arctic Drive, Beaverton, Oregon 97005 U.S.A. (503) 641-7287 www.biamp.com

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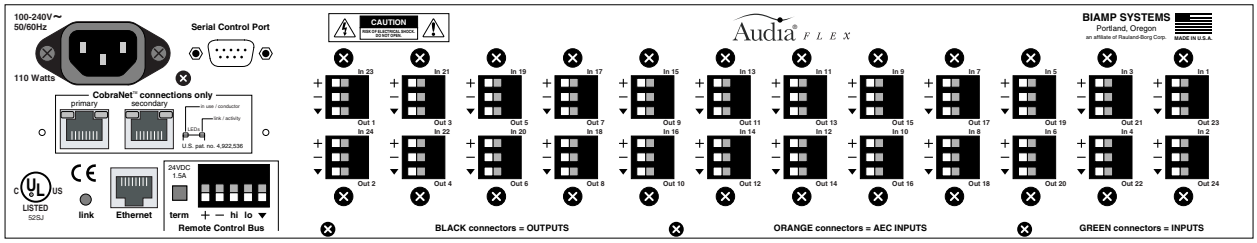
Audia*FLEX* SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.4dB
THD +N (20Hz~20kHz @ +4dBu):	
line level	< 0.006%
mic level	< 0.04%
Equivalent Input Noise (20Hz~20kHz, 66dB gain, 150 ohm):	-125dBu
Dynamic Range (20Hz~20kHz, 0dB):	> 107dB
Maximum Gain (input channels):	66dB
Crosstalk (channel-to-channel @ 1kHz):	
line level	< -80dB
mic level	< -75dB
Output Impedance (balanced):	200 ohms
Input Impedance (mic/line balanced):	8k ohms

Maximum Output (balanced):	+24dBu
Maximum Input (mic/line):	+24dBu
Phantom Power:	+48 VDC (7mA/input)
Input Gain Range (variable trim):	0dB ~ +66dB
Sampling Rate:	48kHz
A/D - D/A Converters:	24-bit
Power Consumption (100~240VAC 50/60Hz):	< 110 watts
Dimensions:	
height	3.5 inches (89mm)
width	19 inches (483mm)
depth	11.15 inches (283mm)
Weight (maximum - fully loaded 24-inputs):	13.62 lbs. (6.2kg)

Audia*FLEX* 12x12CM REAR PANEL DIAGRAM



Audia*FLEX* BLOCK DIAGRAM