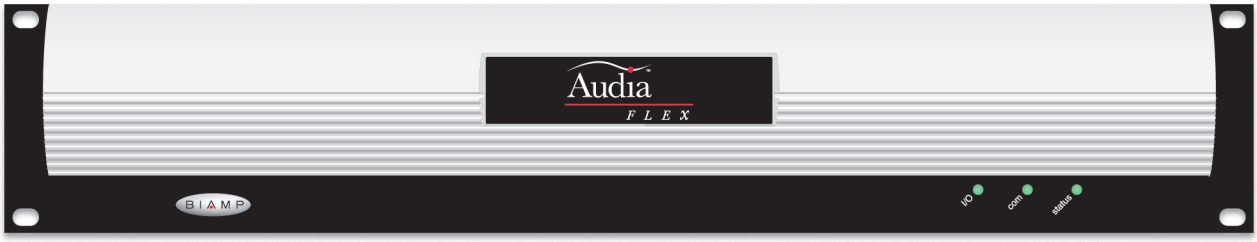
BIAMP®

RoHS Compliant EU 2002/95/EC

AudiaFLEX
Digital Audio Platform



AudiaFLEX is an expanded version of Audia®, the benchmark in digital audio systems for demanding professional sound installations. AudiaFLEX 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 AudiaFLEX, where it can then be controlled via third-party systems such as AMX® and Crestron®, via *daVinci*™ software, and/or via dedicated Audia remote control panels.

FEATURES

- up to 24 inputs/outputs, with or without CobraNet
- input (IP-2), echo canceling (AEC-2HD), telephone (TI-2), output (OP-2e), & amplifier (PA-2) cards
- 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
- **RoHS** compliance and **AES** grounding practices
- **CE** marked and **UL** / **C-UL** listed
- covered by Biamp Systems' five-year warranty
- 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 (IP-2), Acoustic Echo Cancellation (AEC-2HD), Telephone Interface (TI-2), Mic/Line Ouput (OP-2e), and Amplifier Output (PA-2) 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 Professional. The Digital Audio Platform shall be CE marked, UL/C-UL listed, and shall incorporate AES48-2005 Grounding & EMC practices. The Digital Audio Platform shall be compliant with EU Directive 2002/95/EC, the RoHS directive. Warranty shall be 5 years.

The Digital Audio Platform shall be AudiaFLEX.

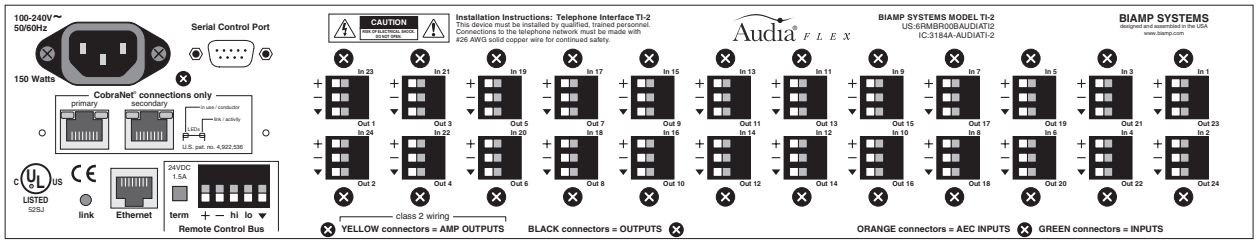
BIAMP®

AudiaFLEX 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):	< 150 watts
Dimensions:	
height	3.5 inches (89mm)
width	19 inches (483mm)
depth	11.15 inches (283mm)
Weight (max. - fully loaded with PA-2 cards):	15.25 lbs. (6.9kg)
Compliance:	AES48-2005 Grounding & EMC practices EU Directive 2002/95/EC, RoHS directive CE marked UL / C-UL listed

AudiaFLEX 12x12CM REAR PANEL DIAGRAM



AudiaFLEX BLOCK DIAGRAM