



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 networked or stand-alone applications. 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 computer, and/or via dedicated AUDIA™ remote control panels.

FEATURES

- Up to 24 inputs/outputs, any combination by pairs, with or without CobraNet™
- On-screen display of the total audio design
- Configuration/control via PC/laptop
- Third-party control via RS-232
- Remote control panels for level, presets, etc.
- Built-in diagnostic tools
- Remote function control via Ethernet
- 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
 - Filters: HPF, LPF, high shelf, low shelf, all-pass
 - Crossovers: 2-Way, 3-Way and 4-way
 - Dynamics: Leveler, comp/limiter, ducker, ANC
 - Routers: 2x4 ~ 40x40
 - Delays: 0 ~ 2000mS
 - Remote controls
 - 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 and outputs shall be specified by pairs, in any combination, up to a total of 24. Inputs and 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.

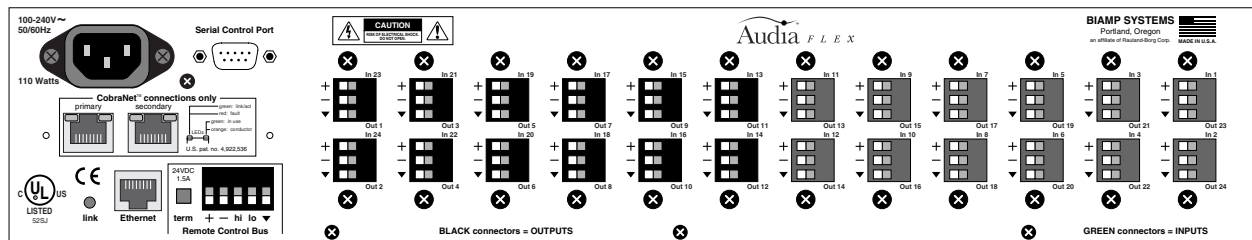
Each hardware configuration shall include six 60MHz 32-bit floating point DSPs, an 80MHz 32-bit host processor, 32MB SDRAM, and 8MB Flash ROM. Software shall be provided for creating/connecting DSP system components within each hardware unit. Available system components shall include (but not be limited 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 network 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 network 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® NT 4.0/2000/XP.

The Digital Audio Platform shall be AudiaFLEX.

AudiaFLEX SPECIFICATIONS

Frequency Response (20Hz~20kHz @ +4dBu):	+0/-0.4dB	Maximum Output (balanced):	+24dBu
THD +N (20Hz~20kHz @ +4dBu):		Maximum Input (mic/line):	+24dBu
line level	< 0.006%	Phantom Power:	+48 VDC (7mA/input)
mic level	< 0.04%	Input Gain Range (variable trim):	0dB ~ +66dB
Equivalent Input Noise (20Hz~20kHz, 66dB gain, 150 ohm):	-125dBu	Sampling Rate:	48kHz
Dynamic Range (20Hz~20kHz, 0dB):	> 107dB	A/D - D/A Converters:	24-bit
Maximum Gain (input channels):	66dB	Power Consumption (100~240VAC 50/60Hz):	> 110 watts
Crosstalk (channel-to-channel @ 1kHz):		Dimensions:	
line level	< -80dB	height	3.5 inches (89mm)
mic level	< -75dB	width	19 inches (483mm)
Output Impedance (balanced):	200 ohms	depth	11.15 inches (283mm)
Input Impedance (mic/line balanced):	8k ohms	Weight (maximum - fully loaded 24-inputs):	13.62 lbs. (6.2kg)

AudiaFLEX 12x12CM REAR PANEL DIAGRAM



AudiaFLEX BLOCK DIAGRAM

