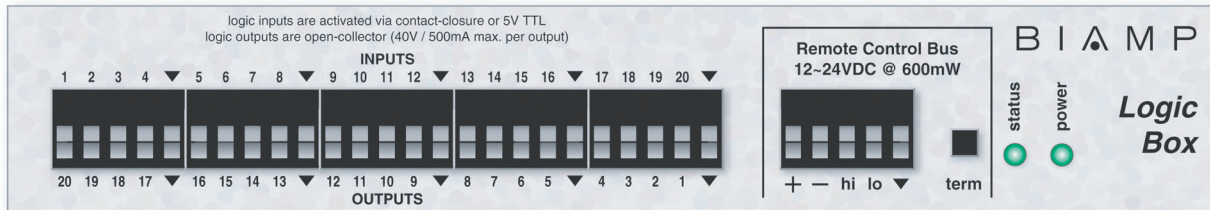


Logic Box



**Logic Box is a natural extension of Audia® and Nexia® products. This device provides both logic inputs and outputs, as a programmable control interface. Logic inputs allow creation of custom control panels, with completely programmable functions. Logic outputs allow the system to provide programmable triggers to external circuits, such as status indicators and speaker relays. Innovative design allows 20 available connections on the Logic Box to be configured in any combination of inputs and outputs. This extends true flexibility for a variety of applications, using the same hardware. The Logic Box is connected to a system on a 5-wire daisy-chain, eliminating the need for local power sources. This connection also provides the serial communication to the Audia or Nexia system. Multiple Logic Boxes, and Control Panels, can be connected on one bus, over a large physical distance.**

**FEATURES**

- 20 logic connections - any combination of inputs/outputs
- *logic inputs* - control system actions from external switches
- actions are any individual or grouped system operation
- actions include presets, mutes, ducking, combining, etc.
- *logic outputs* - trigger external control circuits from system
- external circuits can be indicators, speaker relays, etc.
- logic functions programmed within system software design
- logic functions can be made to change along with presets
- various Audia/Nexia controls allowed on same system bus
- 1000' cable length per Audia/Nexia device control bus
- convenient key-hole mounting (local power not required)
- covered by Biamp Systems' five-year warranty

**ARCHITECTS & ENGINEERS SPECIFICATION**

The logic control interface shall provide 20 logic connections, which shall be programmable in any combination of inputs/outputs. The logic control interface shall include key-hole mounting, and shall require no local power source. The logic control interface shall provide programmable remote control of internal functions and external circuitry for Biamp's Audia® or Nexia® products. The logic control interface shall carry a five-year warranty. The logic control interface shall be a BIAMP Logic Box.

## APPLICATIONS

<b>room combining</b>	-	remote selection of room combinations, based on preset configurations or moveable partitions, with automatic combining of volume functions
<b>A/V conferencing</b>	-	source and room mode selection (i.e. conferencing or playback), plus mic indicators, speaker zone muting, and automatic camera selection
<b>paging / music</b>	-	zone page routing and music source selection, with page-over-music ducking, plus fault monitoring for amplifiers and external equipment
<b>restaurant / bar</b>	-	zone music source selection, speaker zone muting, and centralized hostess page routing

## SPECIFICATIONS

<b>dimensions (H x W x D)</b>	-	1.6" x 9.1" x 3.25" (40.64mm x 231.14mm x 82.55mm)
<b>power consumption</b>	-	600mW @ 12~24 Volts DC (from Audia/Nexia device)
<b>controls per system device</b>	-	32 (Audia); 12 (Nexia); any combination of RCB controls
<b>control cable requirements</b>	-	5-wire data grade (95~120 ohm nominal impedance) (16 pF/ft. max. capacitance) (65% min. velocity of prop.) <i>recommended cable:</i> Gepco 18/22AXL, Liberty AXLINK, Liberty CRESNET, or equivalent
<b>control cable length</b>	-	1000 feet / 300 meters (overall per Audia/Nexia device)
<b>control bus wiring</b>	-	single daisy-chain (system device in center or at one end)
<b>control programming</b>	-	each logic connection configured for specific operation by means of drag & drop icons within the system design software
<b>logic input trigger</b>	-	contact-closure or 5V TTL
<b>logic output type</b>	-	open collector (40V / 500mA maximum per output)
<b>logic cable length</b>	-	up to 2000 feet / 600 meters (per logic connection)