

# DATA SHEET

## NEXIA® CS

### DSP CONFERENCE SYSTEM



Nexia CS is a digital signal processor with 10 mic/line inputs and 6 mic/line outputs. Intended for a variety of conferencing applications such as boardrooms, courtrooms, and council chambers, Nexia CS includes a broad selection of audio components, routing options, and signal processing. The internal system design is completely user definable via PC software, and can be controlled via daVinci™ software screens, RS-232 control systems, and/or a variety of optional remote control devices. Multi-unit Nexia systems can be created utilizing Ethernet and NexLink digital audio linking.

#### FEATURES

- 10 balanced mic/line inputs on plug-in barrier strips
- 6 balanced mic/line outputs on plug-in barrier strips
- Ethernet port for software configuration/control
- Serial port for third-party RS-232 remote control
- Remote control bus for dedicated control panels
- NexLink ports for multi-unit system designs
- Nexia software for Windows®
- Pre-configured I/O with definable processing
- Mix, route, combine, EQ, delay, control, etc.
- CE marked, UL listed and RoHS compliant
- Covered by Biamp Systems' 5-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 and 4-Way
  - Dynamics: leveler, comp/limiter, ducker, ANC
  - Routers: 2x1 ~ 32x32
  - Delays: 0 ~ 2000ms
  - Controls: levels, presets, logic, RS-232, etc.
  - Meters: signal present, peak, RMS
  - Generators: tone, pink-noise, white-noise
  - Diagnostics: transfer function

## ARCHITECTS & ENGINEERS SPECIFICATION

The DSP conference system shall provide ten balanced mic/line inputs and six balanced mic/line outputs on plug-in barrier-strip connectors. 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). NexLink connections shall allow sharing of digital audio within multi-unit systems. 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 and configuration. After initial programming, processors may be controlled via dedicated software screens, third-party RS-232 control systems, and/or optional remote control devices. Software shall operate on a PC computer, with network card installed, running Windows®. The DSP conference system shall be CE marked, UL listed, and shall be compliant with the RoHS directive. Warranty shall be five years. The DSP conference system shall be Nexia CS.

## NEXIA CS SPECIFICATIONS

|  |                 |   |   |
|--|-----------------|---|---|
| <b>Frequency Response</b><br>(20Hz-20kHz @ +4dBu): | +0/-0.4dB       | <b>Phantom Power:</b>                             | +48 VDC<br>(7mA/input)  |
| <b>THD+N (20Hz-20kHz @ +4dBu):</b>                 |                 | <b>Cross Talk (channel to channel @ 1kHz):</b>    |   |
| <b>Line level:</b>                                 | < 0.006%        | <b>Line level:</b>                                | < -80dB   |
| <b>Mic level:</b>                                  | < 0.05%         | <b>Mic level:</b>                                 | < -75dB   |
| <b>EIN (20Hz-20kHz, 66dB Gain, 150Ω):</b>          | -125dBu         | <b>Power Consumption</b><br>(100-240VAC 50/60Hz): | 65W   |
| <b>Dynamic Range (20Hz-20kHz, 0dB):</b>            | > 105dB         | <b>Overall Dimensions:</b>                        |   |
| <b>Input Impedance (balanced):</b>                 | 8kΩ             | <b>Height:</b>                                    | 1.75 inches (44 mm)   |
| <b>Maximum Input:</b>                              | +24dBu          | <b>Width:</b>                                     | 19.0 inches (483 mm)  |
| <b>Maximum Gain:</b>                               | 66dB            | <b>Depth:</b>                                     | 11.2 inches (283 mm)  |
| <b>Input Gain Range (variable):</b>                | 0 - 66dB        | <b>Weight:</b>                                    | 8.6 lbs (3.9 kg)  |
| <b>Output Impedance (balanced):</b>                | 200Ω            | <b>Sampling Rate:</b>                             | 48kHz   |
| <b>Maximum Output:</b>                             | +24dBu          | <b>A/D - D/A Converters:</b>                      | 24-bit  |
| <b>Full Scale Output Level (six selections):</b>   | -31dBu ~ +24dBu | <b>Compliance:</b>                                | CE marked (Europe)<br>UL listed (USA & Canada)<br>RoHS Directive (Europe) |

## NEXIA CS BACK PANEL

